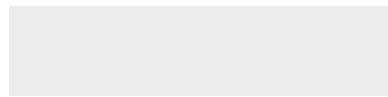


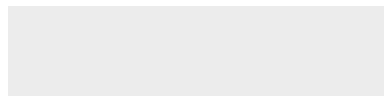


# MATREX CLUSTER™

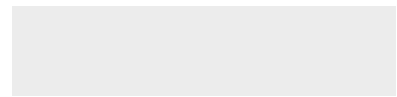
## FULL SPECIFICATION SHEET



FIXTURE TYPE



FIXTURE CODE

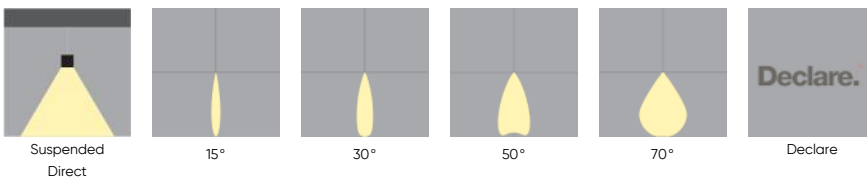


QUANTITIES

### 1 DESCRIPTION

**MATREX CLUSTER** stacks 2, 3, or 4 **MATREX** spotlights 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. Suspension points originate from the sides allowing for unobstructed uplight. 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



### 3 APPROVALS



### 4 GENERAL SPECIFICATION

#### BODY AND TRIM

Steel and aluminum.

#### FINISH

Powder coated as specified.

## 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.

## SUSTAINABILITY

Designed for on-site LED board, driver, and optic replacement.  
Contact the factory for maintenance documentation.

## 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

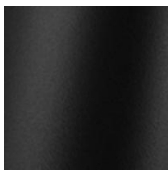
US Pat. No. D917,765.

## 5 DESIGN OPTIONS

### FINISH - FIXTURE



White



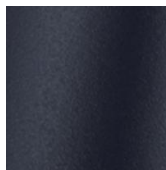
Black  
Metallic -  
Textured



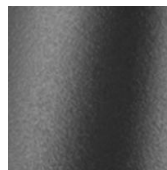
Silver  
Metallic -  
Textured



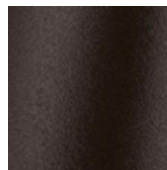
Gold Metallic  
- Textured



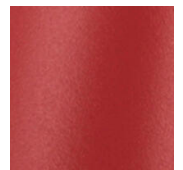
Midnight  
Blue Metallic  
- Textured



Charcoal  
Metallic -  
Textured



Bronze  
Metallic -  
Textured



Red Metallic  
- Textured

## FINISH – CANOPY



## 6 HOW TO ORDER

|                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LUMINAIRE</b><br><br><b>MACP2P01</b> 2 heads, 18400 lms<br><b>MACP3P01</b> 3 heads, 27600 lms<br><b>MACP4P01</b> 4 heads, 36800 lms<br><br>All data shown at max output and nominal values.                                                                                                                                     | <b>LUMENS</b><br><br><b>LMA1380</b> 13800<br><b>LMA1840</b> 18400<br><b>LMA2070</b> 20700<br><b>LMA2760</b> 27600<br><b>LMA3680</b> 36800<br><br>* Max lumen values shown, refer to IES files for the different snoot and beam options.                                                                                                                | <b>CRI</b><br><br><b>CR80</b> CRI 80+<br><b>CR90</b> CRI 90+                                                                                                                                                                                                                                                                                                                                                                                                       | <b>CCT</b><br><br><b>CTA27</b> 2700K <sup>1</sup><br><b>CTA30</b> 3000K<br><b>CTA35</b> 3500K<br><b>CTA40</b> 4000K<br><br><sup>1</sup> 2700K is only available with CRI 80+                                                                                                                                                                            |
| <b>BEAM ANGLE</b><br><br><b>BA15</b> 15°<br><b>BA30</b> 30°<br><b>BA50</b> 50°<br><b>BA70</b> 70°                                                                                                                                                                                                                                  | <b>VOLTAGE</b><br><br><b>V1</b> 120/277V<br><b>V2</b> 240V <sup>1</sup><br><b>V3</b> 347V <sup>2</sup><br><br><sup>1</sup> Not available in North America. <sup>2</sup> Only available with DA01 dimming.                                                                                                                                              | <b>DIMMING</b><br><br><b>DA01</b> 0–10V Dimming 1.0%<br><b>DA02</b> 0–10V Dimming 0.1% <sup>1</sup><br><b>DA20</b> DALI Dimming 0.1% <sup>1</sup><br><b>DA21</b> DALI Dimming 1.0% <sup>1</sup><br><b>DA30</b> DSI/switchDim <sup>1 2</sup><br><b>DA40</b> DMX Dimming <sup>1 3</sup><br><br><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. | <b>FIXTURE FINISH</b><br><br><b>FA01</b> White<br><b>FA02</b> Black Metallic – Textured<br><b>FA20</b> Silver Metallic – Textured<br><b>FA25</b> Gold Metallic – Textured<br><b>FA44</b> Midnight Blue Metallic – Textured<br><b>FA46</b> Charcoal Metallic – Textured<br><b>FA47</b> Bronze Metallic – Textured<br><b>FA53</b> Red Metallic – Textured |
| <b>CANOPY</b><br><br><b>CN1</b> Canopy A <sup>1</sup><br><b>CN3</b> Canopy C <sup>1 3</sup><br><b>CN5</b> Canopy DMX <sup>3</sup><br><br><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 and DA40 (DMX Dimming). Not available with V3. | <b>CANOPY FINISH</b><br><br><b>CF01</b> White<br><b>CF02</b> Black Metallic – Textured<br><b>CF20</b> Silver Metallic – Textured<br><b>CF25</b> Gold Metallic – Textured<br><b>CF44</b> Midnight Blue Metallic – Textured<br><b>CF46</b> Charcoal Metallic – Textured<br><b>CF47</b> Bronze Metallic – Textured<br><b>CF53</b> Red Metallic – Textured | <b>SNOOT</b><br><br><b>NT1</b> Standard Snoot – Black <sup>1</sup><br><b>NT2</b> Standard Snoot – White <sup>1</sup><br><b>NT3</b> Long Snoot – Black <sup>1</sup><br><b>NT4</b> Long Snoot – White <sup>1</sup><br><br>For precise beam angle and lumen output, please refer to the IES files. Note that using snoots and louvers may decrease overall efficacy.                                                                                                  | <b>EMERGENCY</b><br><br><b>E0</b> Emergency system not required<br><b>E2</b> Emergency system – Remote                                                                                                                                                                                                                                                  |

## 7 TECHNICAL DATA

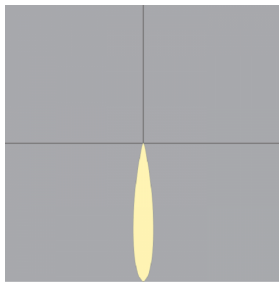
### LUMINAIRE

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      |

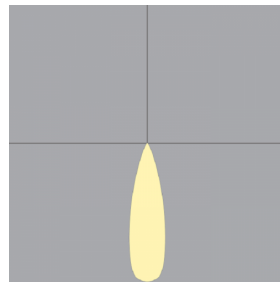
## 8 PERFORMANCE DATA

### DIRECT, 2 HEADS, 15° BEAM ANGLE



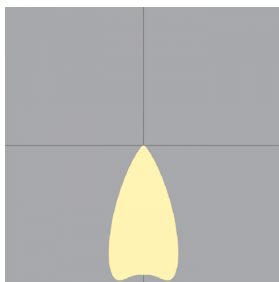
| WATTS | LUMENS | LPW |
|-------|--------|-----|
| 114   | 13600  | 118 |
| 164   | 18000  | 110 |

### DIRECT, 2 HEADS, 30° BEAM ANGLE



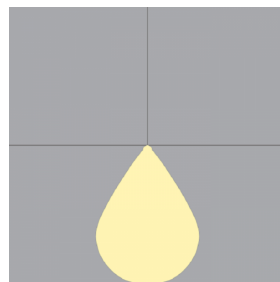
| WATTS | LUMENS | LPW |
|-------|--------|-----|
| 114   | 13600  | 118 |
| 164   | 18000  | 110 |

### DIRECT, 2 HEADS, 50° BEAM ANGLE



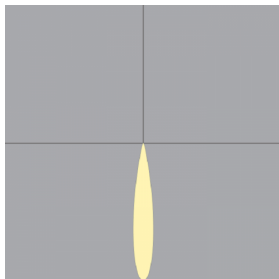
| WATTS | LUMENS | LPW |
|-------|--------|-----|
| 114   | 13600  | 118 |
| 164   | 18000  | 110 |

### DIRECT, 2 HEADS, 70° BEAM ANGLE



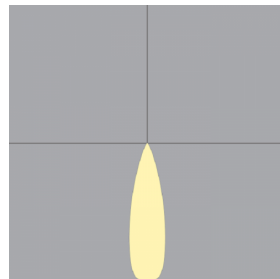
| WATTS | LUMENS | LPW |
|-------|--------|-----|
| 114   | 13600  | 118 |
| 164   | 18000  | 110 |

### DIRECT, 3 HEADS, 15° BEAM ANGLE

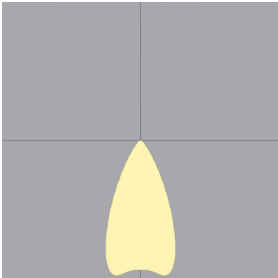
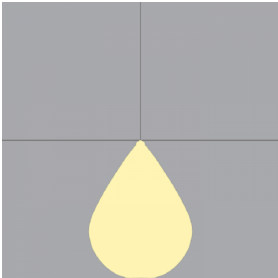
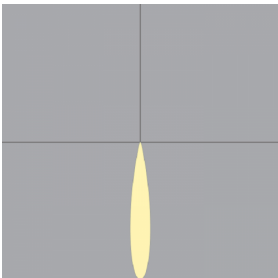
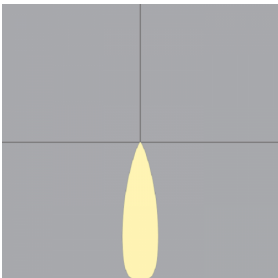
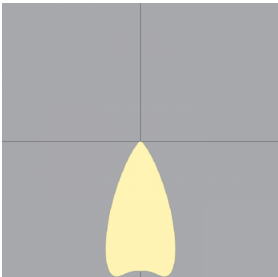
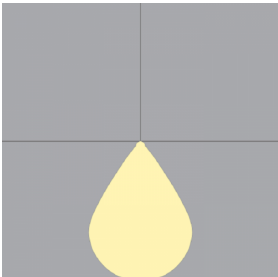


| WATTS | LUMENS | LPW |
|-------|--------|-----|
| 171   | 20400  | 118 |
| 246   | 27000  | 110 |

### DIRECT, 3 HEADS, 30° BEAM ANGLE

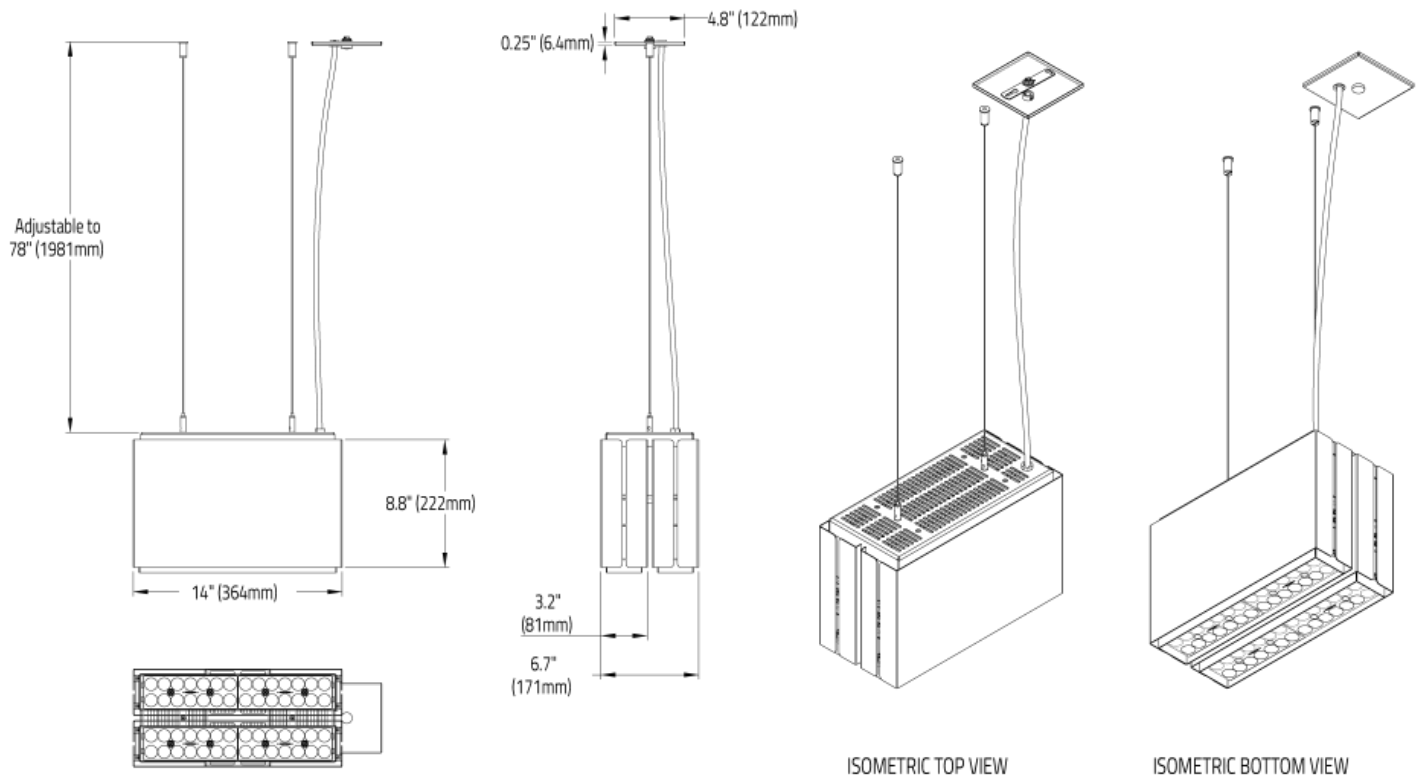


| WATTS | LUMENS | LPW |
|-------|--------|-----|
| 171   | 20700  | 120 |
| 246   | 27600  | 112 |

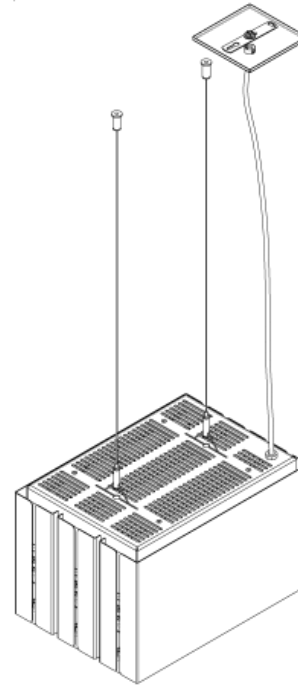
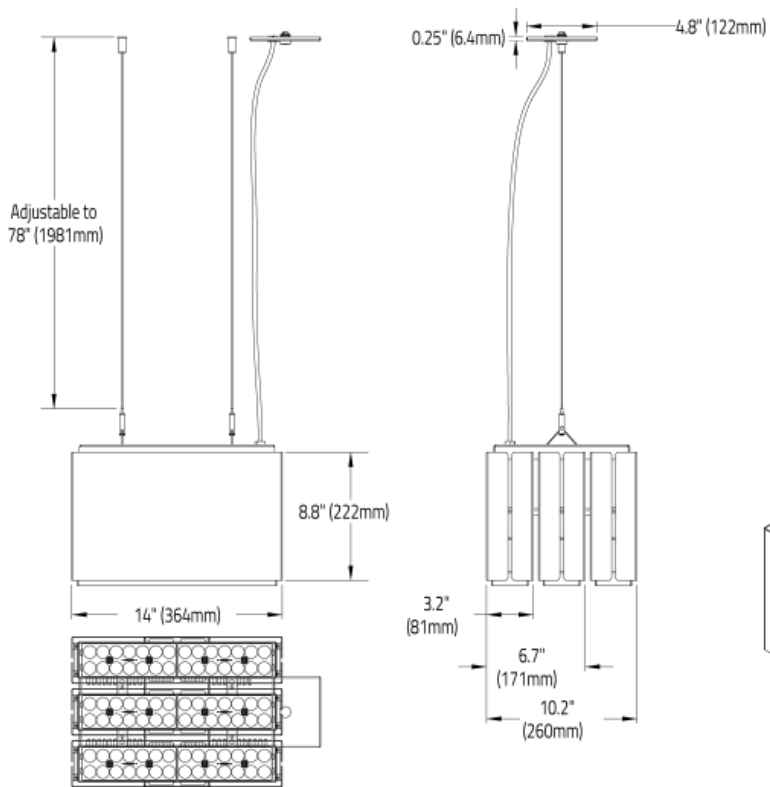
|                                                                                    |            |                |            |                                                                                      |            |                |            |
|------------------------------------------------------------------------------------|------------|----------------|------------|--------------------------------------------------------------------------------------|------------|----------------|------------|
| DIRECT, 3 HEADS, 50° BEAM<br>ANGLE                                                 | WATTS      | LUMENS         | LPW        | DIRECT, 3 HEADS, 70° BEAM<br>ANGLE                                                   | WATTS      | LUMENS         | LPW        |
|    | 171<br>246 | 19500<br>26100 | 114<br>107 |    | 171<br>246 | 19800<br>26400 | 115<br>107 |
| DIRECT, 4 HEADS, 15° BEAM<br>ANGLE                                                 | WATTS      | LUMENS         | LPW        | DIRECT, 4 HEADS, 30° BEAM<br>ANGLE                                                   | WATTS      | LUMENS         | LPW        |
|    | 328        | 36000          | 110        |    | 328        | 36800          | 112        |
| DIRECT, 4 HEADS, 50° BEAM<br>ANGLE                                                 | WATTS      | LUMENS         | LPW        | DIRECT, 4 HEADS, 70° BEAM<br>ANGLE                                                   | WATTS      | LUMENS         | LPW        |
|  | 328        | 34800          | 107        |  | 328        | 35200          | 107        |

9 DIMENSIONAL DIAGRAMS

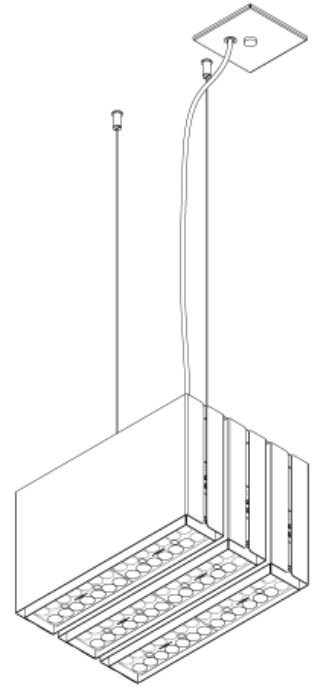
2 HEADS



3 HEADS



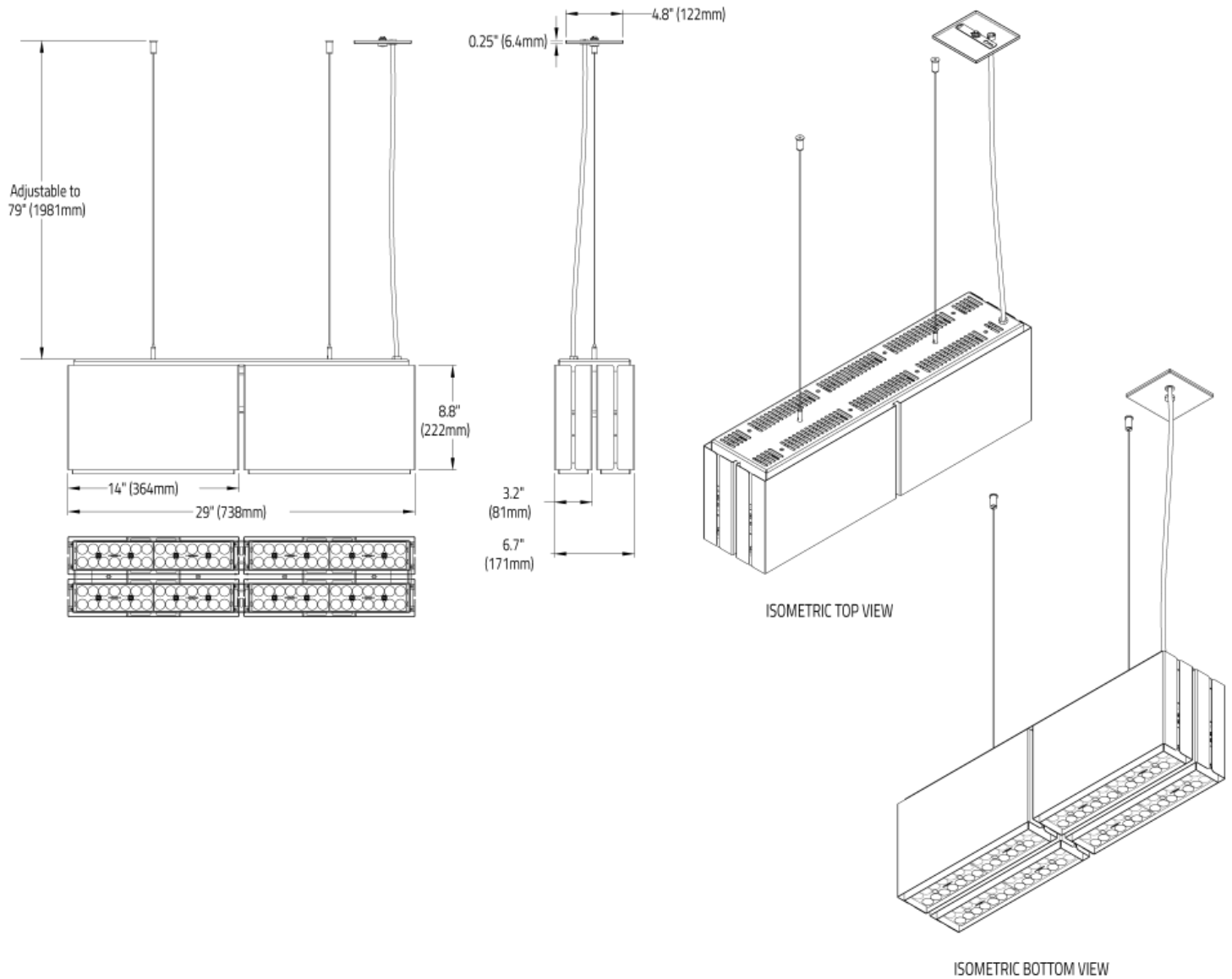
ISOMETRIC TOP VIEW



ISOMETRIC BOTTOM VIEW

**b MATREX CLUSTER™ - SUSPENDED**  
FULL SPECIFICATION SHEET

4 HEADS





Canopy

