

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.

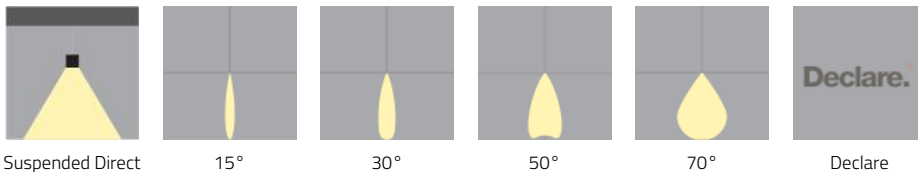
Approvals

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 2700K¹

CTA30 3000K

CTA35 3500K

CTA40 4000K

¹ 2700K is only available with CRI 80+

E. BEAM ANGLE

BA15 15°

BA30 30°

BA50 50°

BA70 70°

F. VOLTAGE

V1 120/277V

V2 240V¹

V3 347V²

¹ Not available in North America.

² Only available with DA01 dimming.

G. DIMMING

DA01 0-10V Dimming 1.0%

DA02 0-10V Dimming 0.1%¹

DA20 DALI Dimming 0.1%¹

DA21 DALI Dimming 1.0%¹

DA30 DSI/switchDim^{1 2}

DA40 DMX Dimming^{1 3}

¹ Not available with V3.

² Not available in North America.

³ 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 A¹

CN3 Canopy C^{1 3}

CN5 Canopy DMX³

¹ Fits over a standard j-box (provided by others).

² For use with V2 only.

³ 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 ¹

NT2 Standard Snoot - White ¹

NT3 Long Snoot - Black ¹

NT4 Long Snoot - White ¹

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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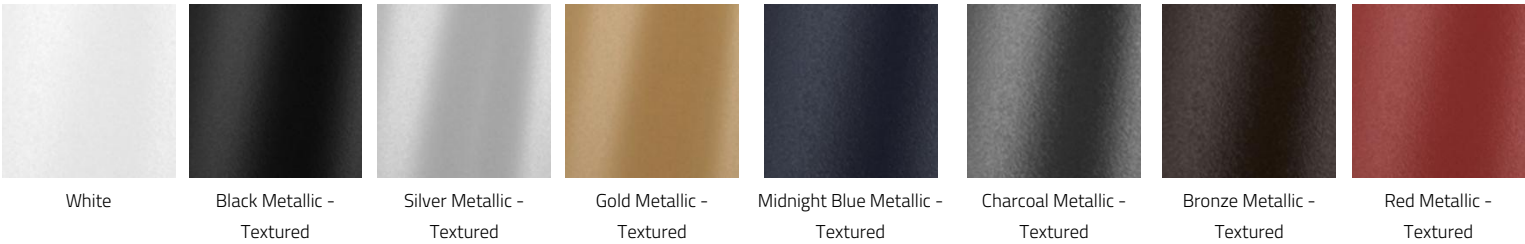
TECHNICAL DATA

LUMINAIRE

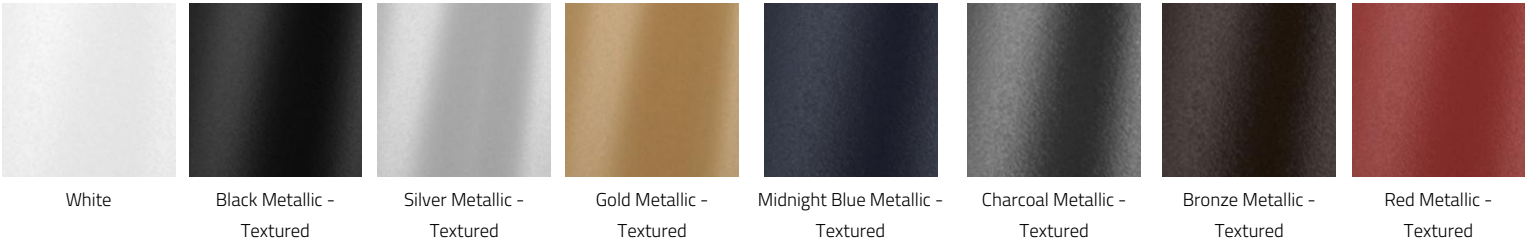
All data shown at max output and nominal values.

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



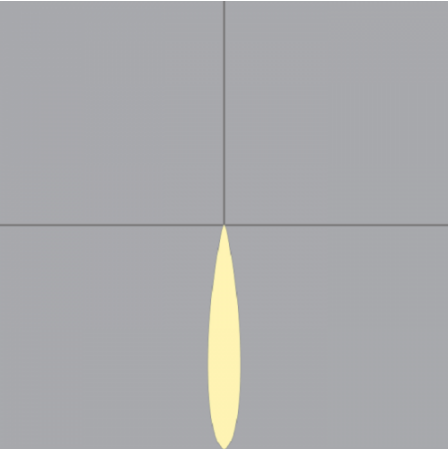
APPROVALS



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PERFORMANCE DATA

DIRECT, 2 HEADS, 15° BEAM ANGLE

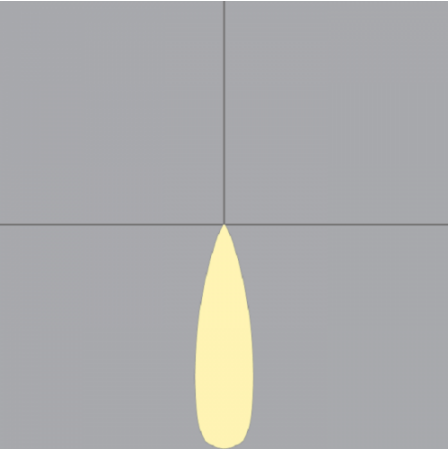


WATTS
114
164

LUMENS
13600
18000

LPW
118
110

DIRECT, 2 HEADS, 30° BEAM ANGLE

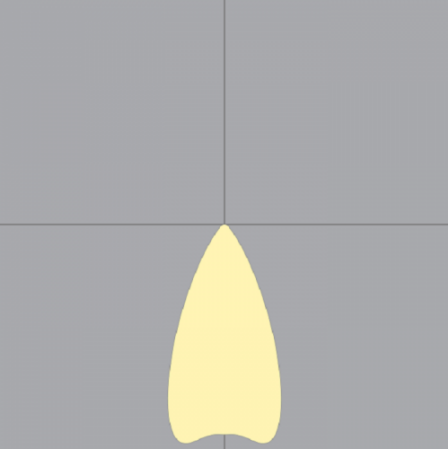


WATTS
114
164

LUMENS
13600
18000

LPW
118
110

DIRECT, 2 HEADS, 50° BEAM ANGLE



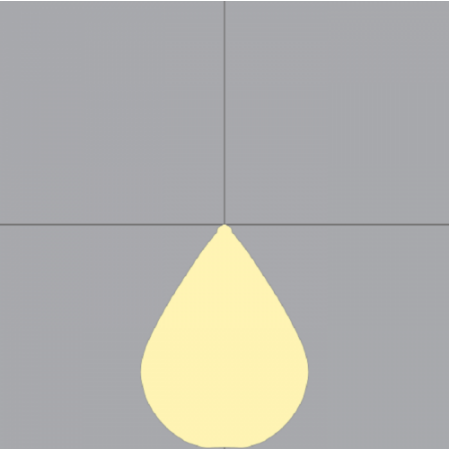
WATTS
114
164

LUMENS
13600
18000

LPW
118
110

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DIRECT, 2 HEADS, 70° BEAM ANGLE

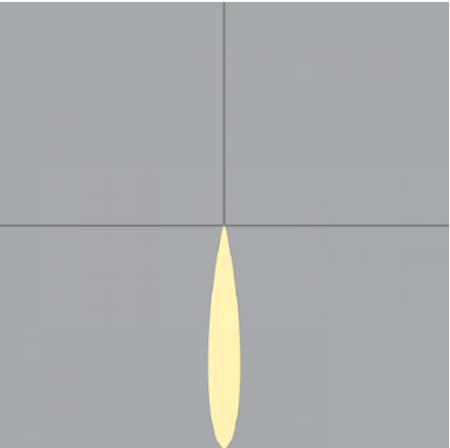


WATTS
114
164

LUMENS
13600
18000

LPW
118
110

DIRECT, 3 HEADS, 15° BEAM ANGLE

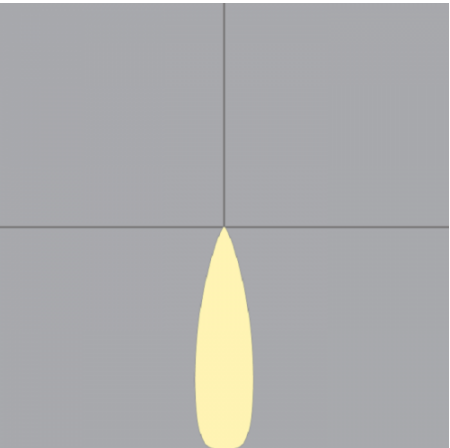


WATTS
171
246

LUMENS
20400
27000

LPW
118
110

DIRECT, 3 HEADS, 30° BEAM ANGLE



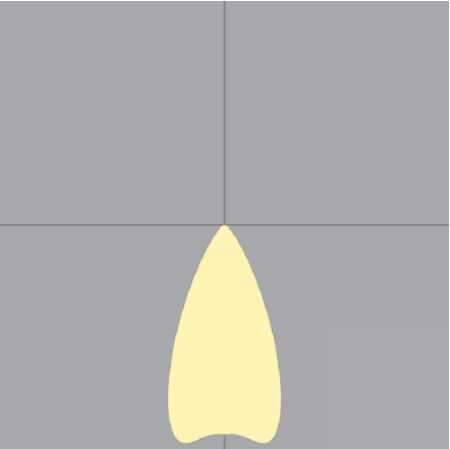
WATTS
171
246

LUMENS
20700
27600

LPW
120
112

MATREX CLUSTER™ - SUSPENDED

DIRECT, 3 HEADS, 50° BEAM ANGLE

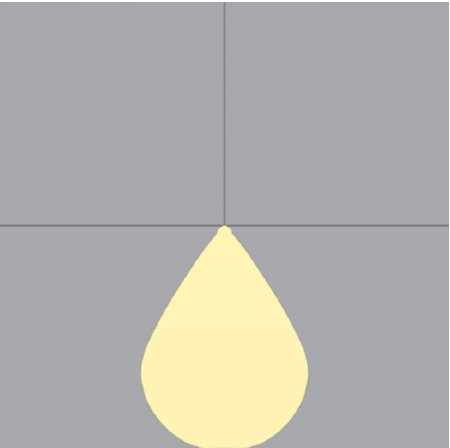


WATTS
171
246

LUMENS
19500
26100

LPW
114
107

DIRECT, 3 HEADS, 70° BEAM ANGLE

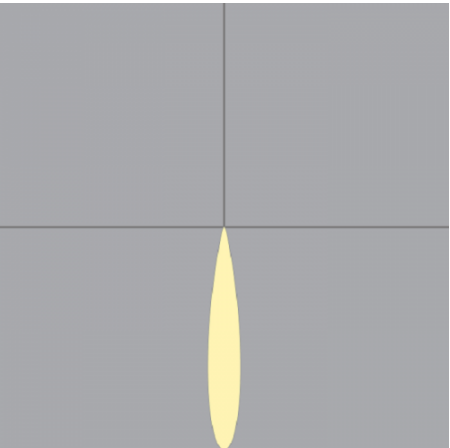


WATTS
171
246

LUMENS
19800
26400

LPW
115
107

DIRECT, 4 HEADS, 15° BEAM ANGLE



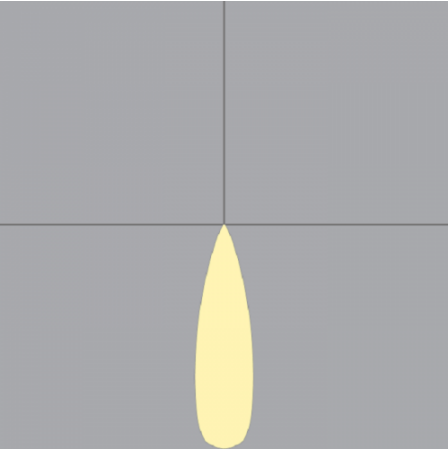
WATTS
328

LUMENS
36000

LPW
110

MATREX CLUSTER™ - SUSPENDED

DIRECT, 4 HEADS, 30° BEAM ANGLE

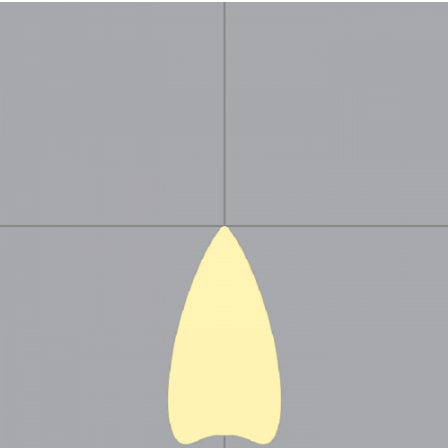


WATTS
328

LUMENS
36800

LPW
112

DIRECT, 4 HEADS, 50° BEAM ANGLE

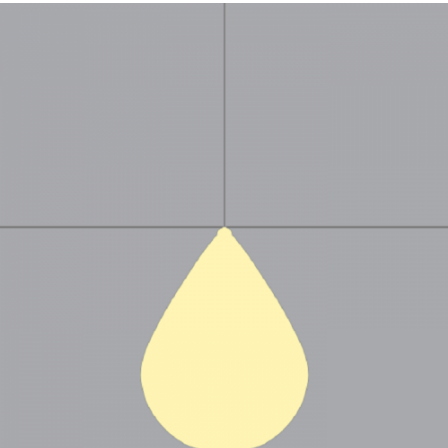


WATTS
328

LUMENS
34800

LPW
107

DIRECT, 4 HEADS, 70° BEAM ANGLE



WATTS
328

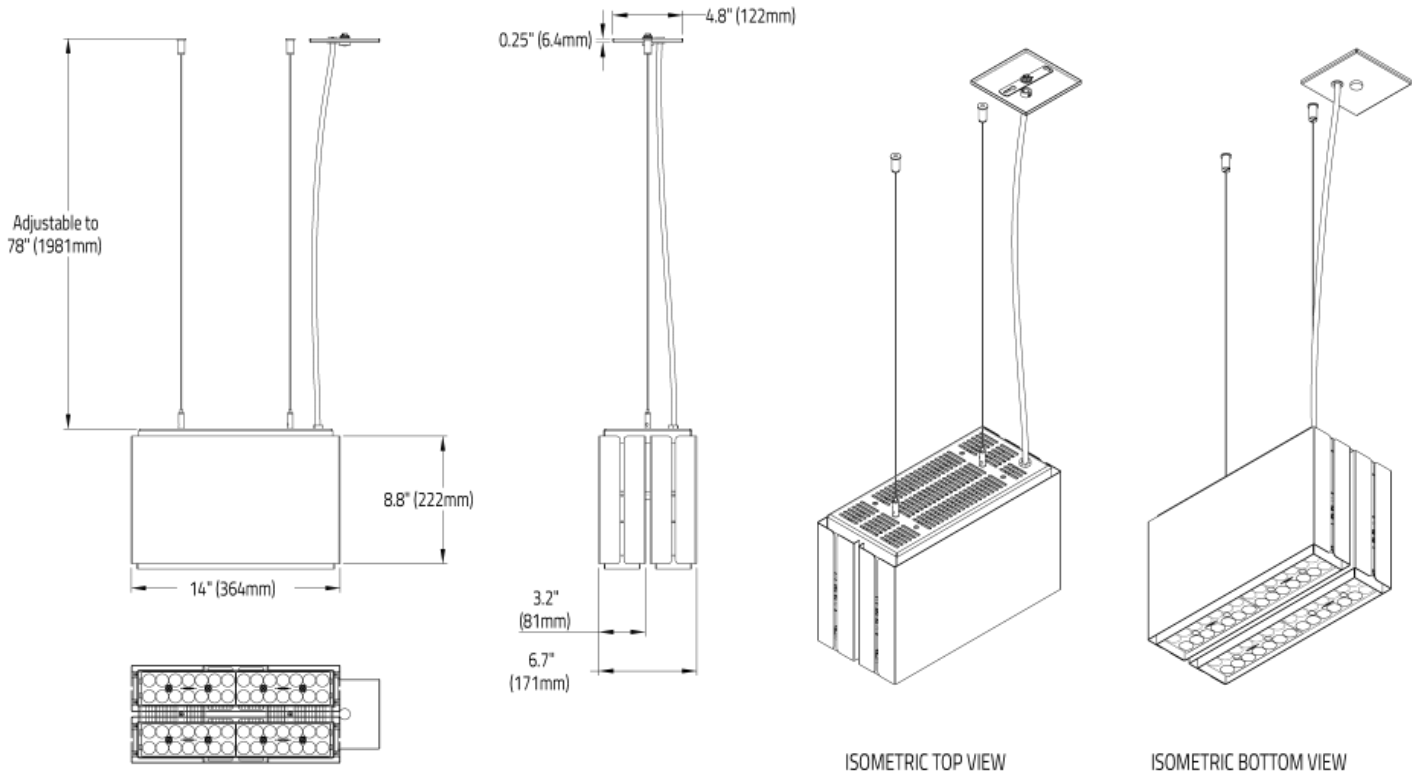
LUMENS
35200

LPW
107

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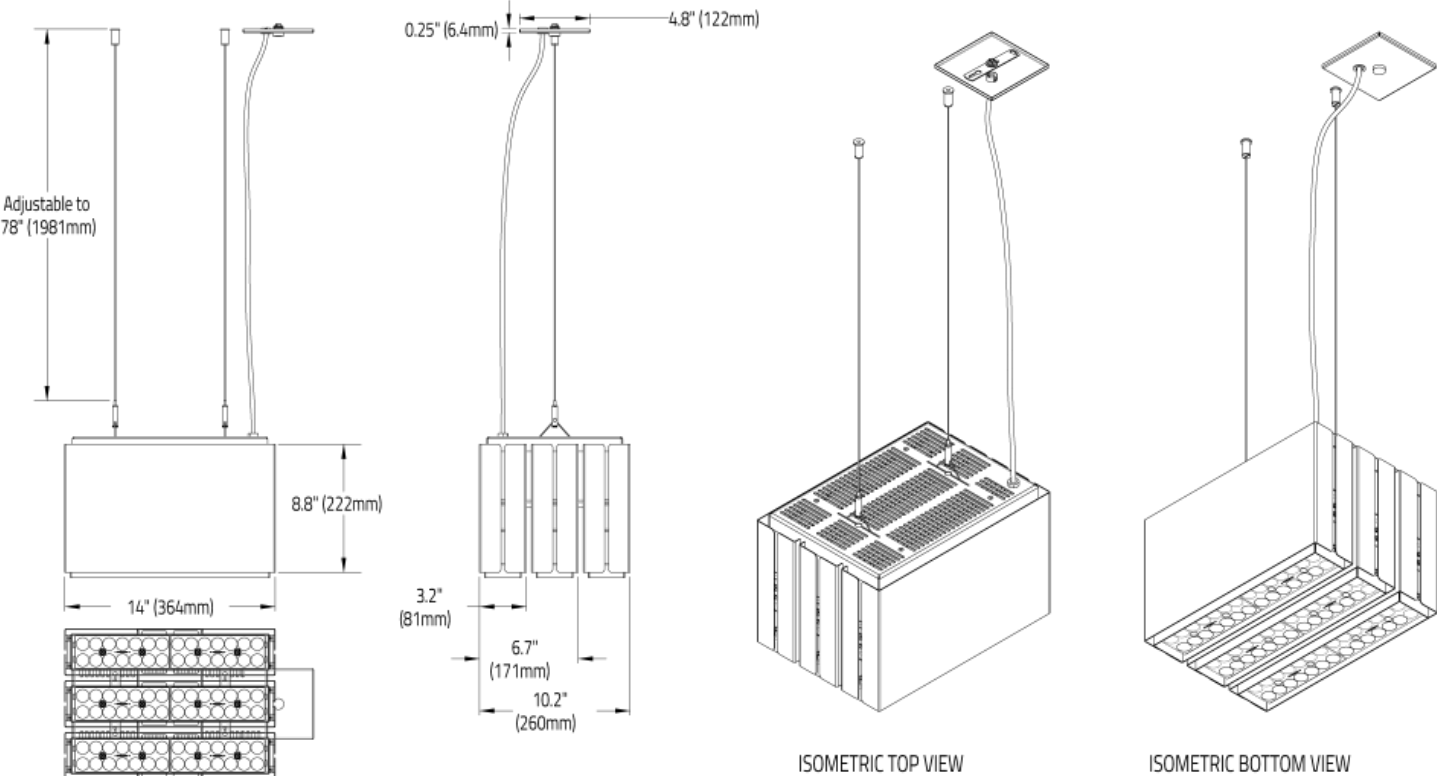
DIMENSIONAL DIAGRAMS

2 HEADS



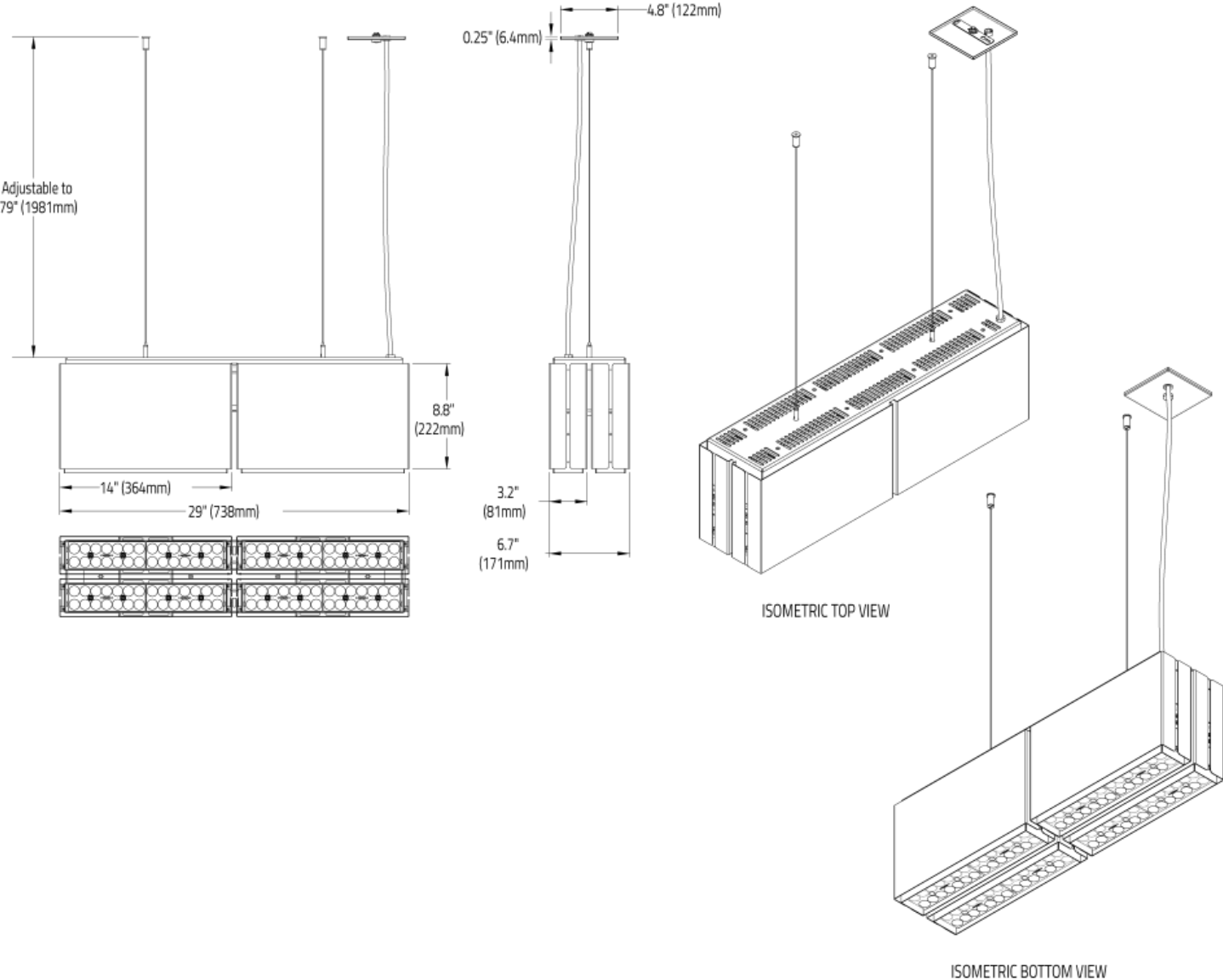
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3 HEADS



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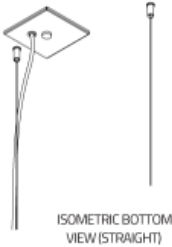
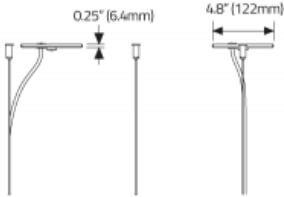
4 HEADS



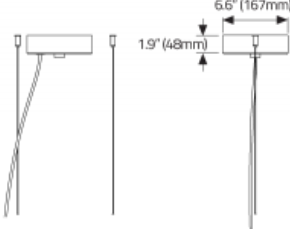
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Canopy

CANOPY A



CANOPY C



CANOPY DMX

