

MATREX DUAL™ - SUSPENDED

Project Name:

Fixture Type:

Fixture Code:

Quantities:



MATREX DUAL™ - SUSPENDED



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MATREX is a family of spotlights 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.

Integral emergency system

Emergency option provides a 1.5 hour (3 hours for EU) emergency lighting facility. The self contained system includes the inverter module, NiCad batteries, LED charge indicator and test switch (NA only). Integral emergency EU luminaires have a 17" (434mm) x 8.3" (210mm) x 2.3" (58mm) canopy with LED charge indicator. Not available with a 347V supply. Drivers are in the canopy and used with the lower module only.

Mechanical

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

Delivered lumens

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

Reported L70 @25°C (77°F)

> 60,000 hrs.

Designed by

Serge Cornelissen.

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 except when ordering emergency then they are integral to the canopy.

Sensors

Consult factory regarding sensor compatibility.

Approvals

Damp Rated.

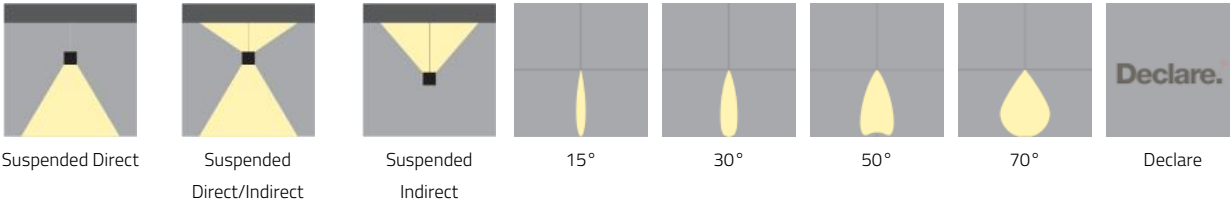
Estimated L70 @25°C (77°F)

> 171,000 hrs.

Design

US Pat. No. D917,765.

MOUNTING & OPTICS



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HOW TO ORDER

A. LUMINAIRE

MXDP1P01 Double Down, 18400 lms **MXDP2P01** Direct/Indirect, 18400 lms **MXDP3P01** Double Up, 18400 lms

All data shown at max output and nominal values.

B. LUMENS (UPPER MODULE)

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

* 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

* 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 2700K¹ **CTA30** 3000K **CTA35** 3500K **CTA40** 4000K

¹ 2700K is only available with CRI 80+

F. BEAM ANGLE (UPPER MODULE)

BA15 15° **BA30** 30° **BA50** 50° **BA70** 70°
BA80 50°x80°¹

¹ Available with Double Down luminaire only.

G. BEAM ANGLE (LOWER MODULE)

BB15 15° **BB30** 30° **BB50** 50° **BB70** 70°
BB80 50°x80°¹

¹ Available with NU8 Ladder Louver only.

H. VOLTAGE

V1 120/277V **V2** 240V¹ **V3** 347V²

¹ Not available in North America.

² Only available with DA01 dimming.

I. 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 2}

¹ Not available with 347V.

² Not available in North America.

³ Only available with CN4 canopy.

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J. 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

K. CANOPY

CN1 Canopy A ¹	CN2 Canopy B ²	CN3 Canopy C ^{1 3}	CN4 Canopy D ^{1 *}
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¹ Fits over a standard j-box (provided by others).

² Fits over a switch box (provided by others, 4"x2.125").

³ For use with V2 (240V) only.

* To be ordered with E1 (Emergency Integral) or DA40 (DMX Dimming).

L. 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

M. SNOOTS AND LOUVERS (UPPER MODULE)

NT1 Standard Snoot - Black ¹	NT2 Standard Snoot - White ¹	NT3 Long Snoot - Black ¹	NT4 Long Snoot - White ¹
NU7 Hex Louver - Black ²	NU8 Ladder Louver - Black ³		

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

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

² Not available with Double Up or Direct/Indirect (Indirect only), BA70 beam angle.

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

N. SNOOTS AND LOUVERS (LOWER MODULE)

NU1 Standard Snoot - Black ¹	NU2 Standard Snoot - White ¹	NU3 Long Snoot - Black ¹	NU4 Long Snoot - White ¹
NU7 Hex Louver - Black ²	NU8 Ladder Louver - Black ³		

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

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

² Not available with Double Up or Direct/Indirect (Indirect only), BB70 beam angle.

³ Available with Double Down and Direct/Indirect (Direct only), BB80 beam angle and 2300 lumens only.

O. EMERGENCY

E0 Emergency system not required	E1 Emergency system - Integral ¹
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¹ Integral emergency in the lower module only, drivers are in the canopy. Not available with 347V. Two power cables will be supplied.

² CN4 canopy only used when ordering emergency or DMX. Two power cables supplied.

P. SEPARATE SWITCHING

CS1 Single circuit	CS2 Separate switching ¹
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¹ Two power cables will be supplied.

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TECHNICAL DATA

LUMINAIRE

All data shown at max output and nominal values.

Code	MXDP1P01	MXDP2P01	MXDP3P01
Light Direction	Double Down	Direct/Indirect	Double Up
Max Wattage	164W	164W	164W
Max Delivered lms	18400	18400	18400
Max LPW	130	130	130

FINISH - FIXTURE



FINISH - CANOPY



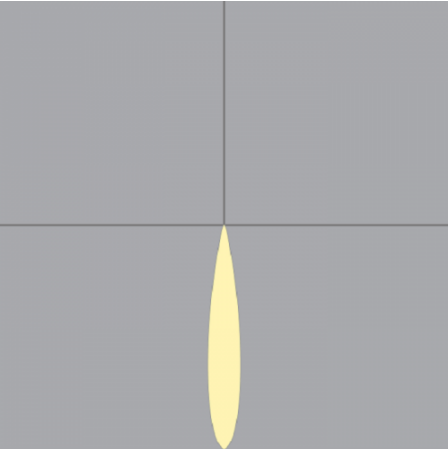
APPROVALS



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PERFORMANCE DATA

DIRECT 15° BEAM ANGLE

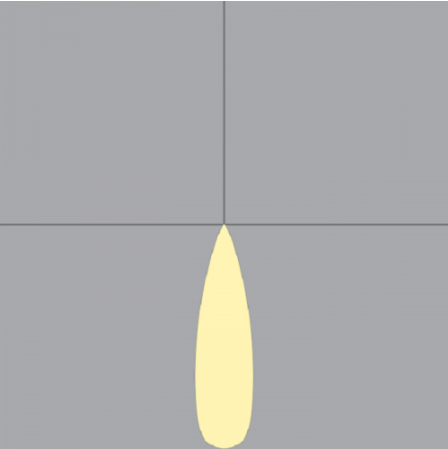


WATTS
32
72
114
164

LUMENS
4600
9000
13600
18000

LPW
138
127
118
110

DIRECT 30° BEAM ANGLE

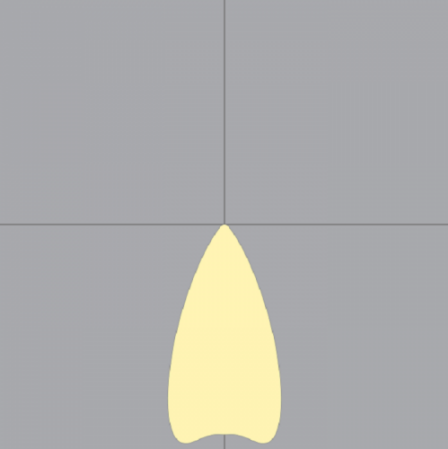


WATTS
32
72
114
164

LUMENS
4600
8800
13000
17400

LPW
140
130
120
112

DIRECT 50° BEAM ANGLE



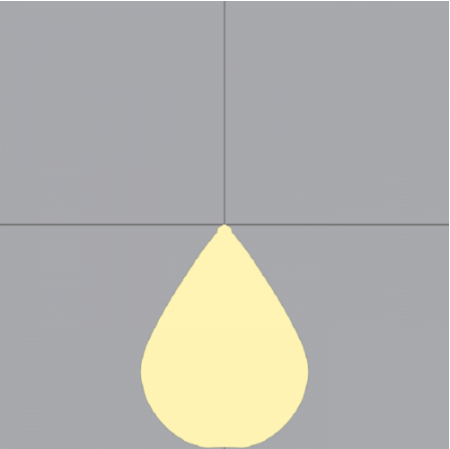
WATTS
32
72
114
164

LUMENS
4400
8800
13000
17400

LPW
133
123
114
107

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DIRECT 70° BEAM ANGLE



WATTS
32
72
114
164

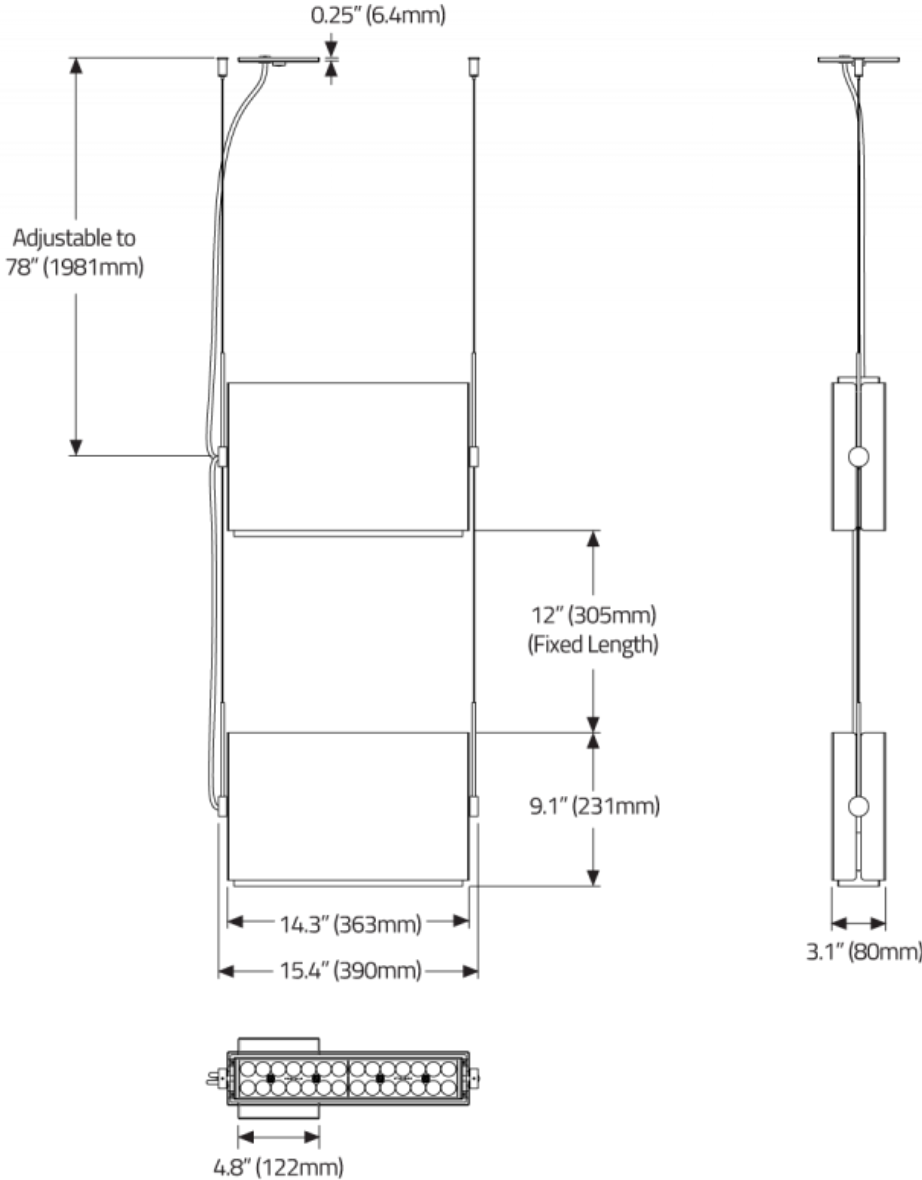
LUMENS
4400
8800
13200
17600

LPW
134
123
115
107

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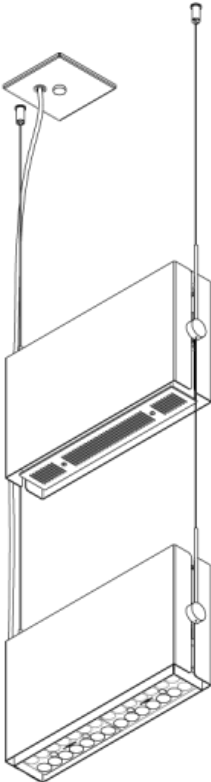
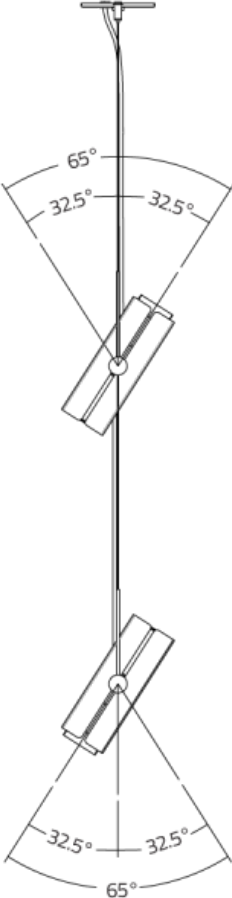
DIMENSIONAL DIAGRAMS

fixture profiles

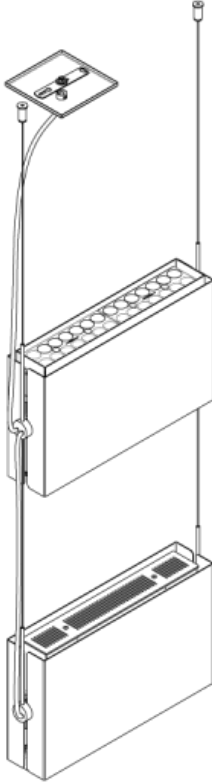


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Direct/Indirect



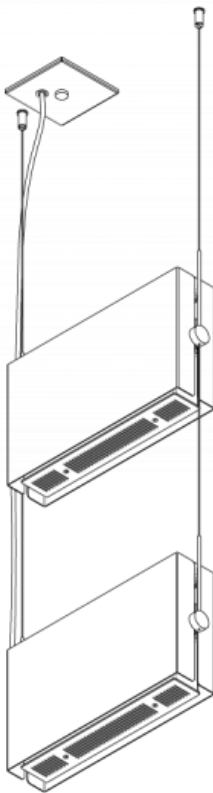
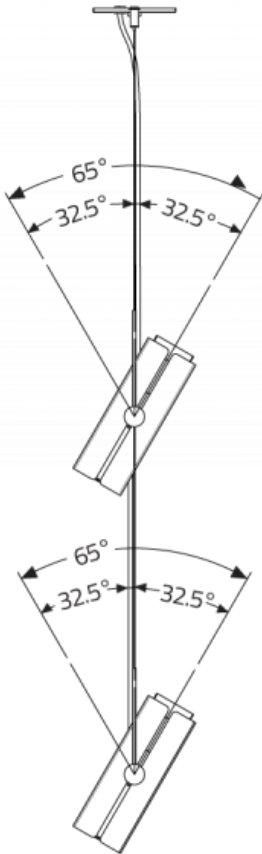
ISOMETRIC BOTTOM VIEW (STRAIGHT)



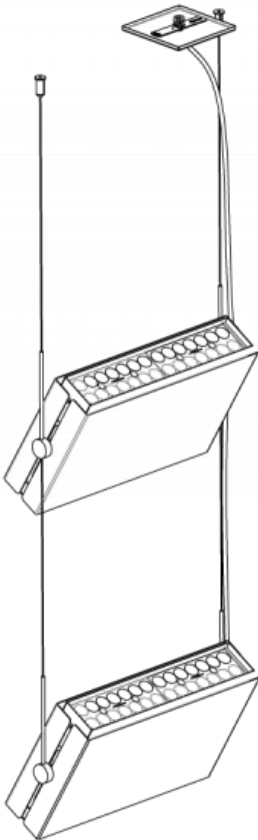
ISOMETRIC TOP VIEW (STRAIGHT)

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DOUBLE UP



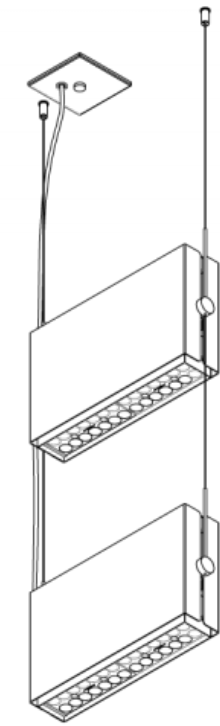
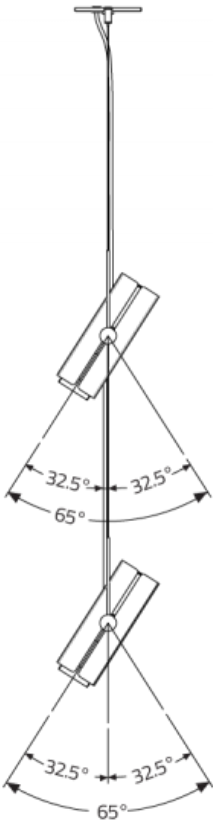
ISOMETRIC BOTTOM VIEW (STRAIGHT)



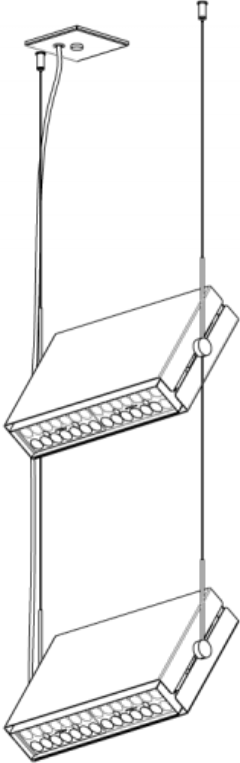
ISOMETRIC VIEW (ANGLED)

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DOUBLE DOWN



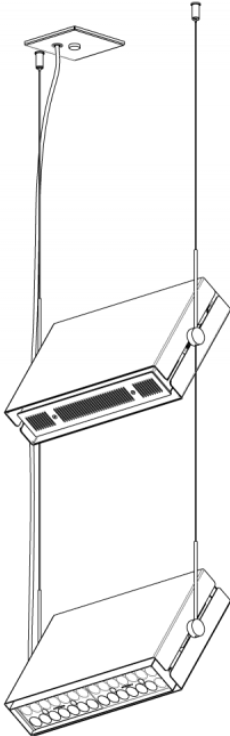
ISOMETRIC BOTTOM VIEW (STRAIGHT)



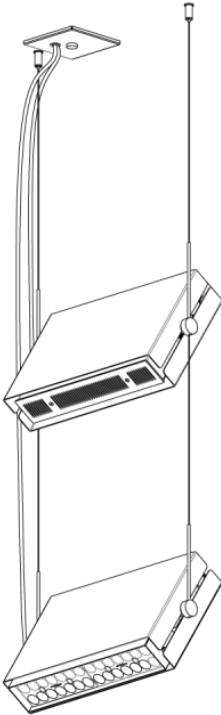
ISOMETRIC VIEW (ANGLED)

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SEPARATE SWITCHING (CS1, CS2)



SINGLE CIRCUIT

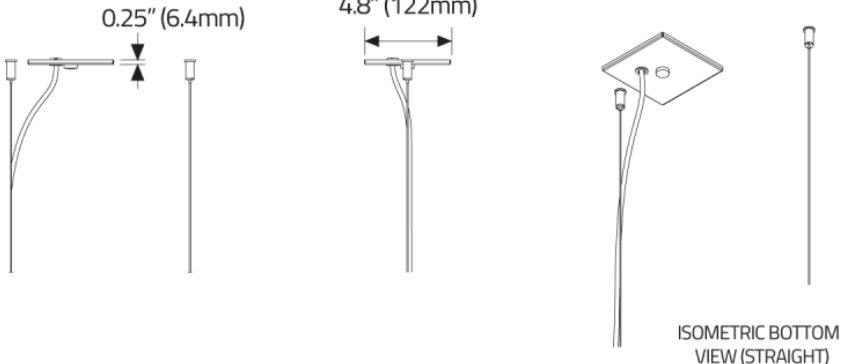


SEPARATE SWITCHING
(Two power cables supplied)

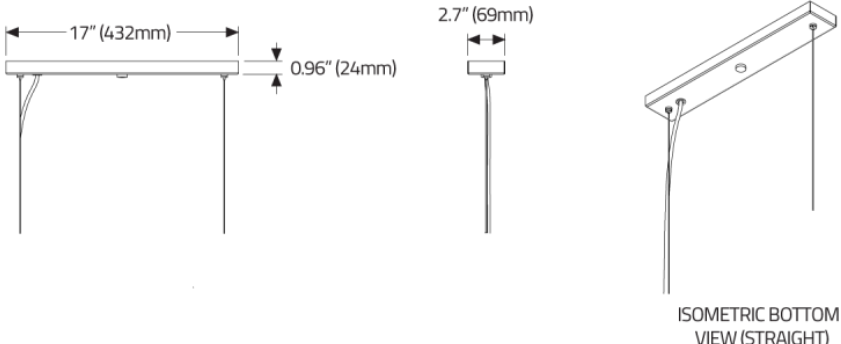
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CANOPIES

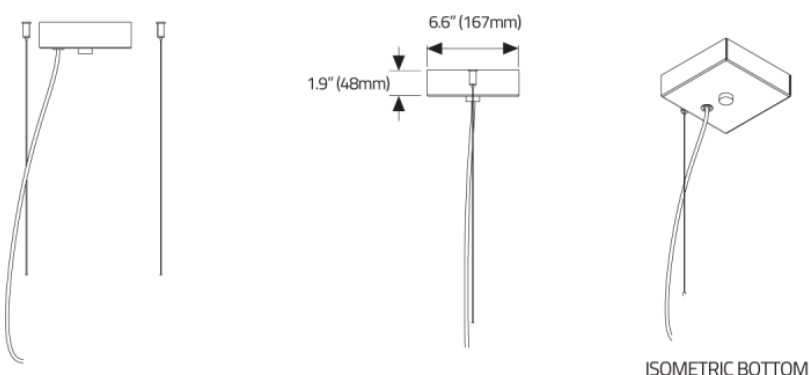
CANOPY A



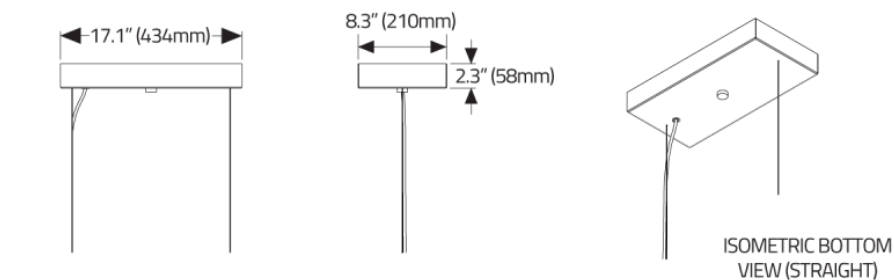
CANOPY B



CANOPY C

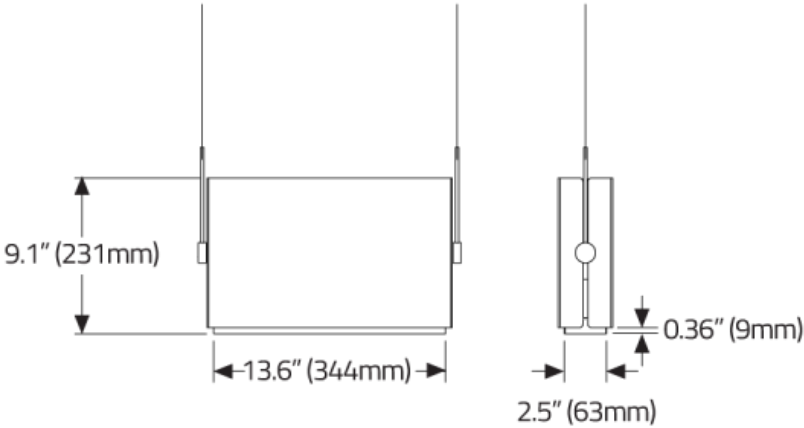


CANOPY D



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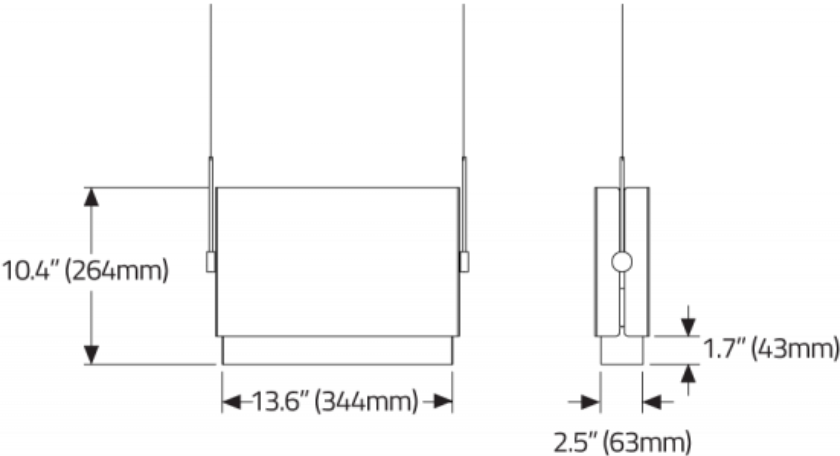
STANDARD SNOOT



STANDARD SNOOT

ISOMETRIC BOTTOM VIEW (STANDARD SNOOT)

LONG SNOOT



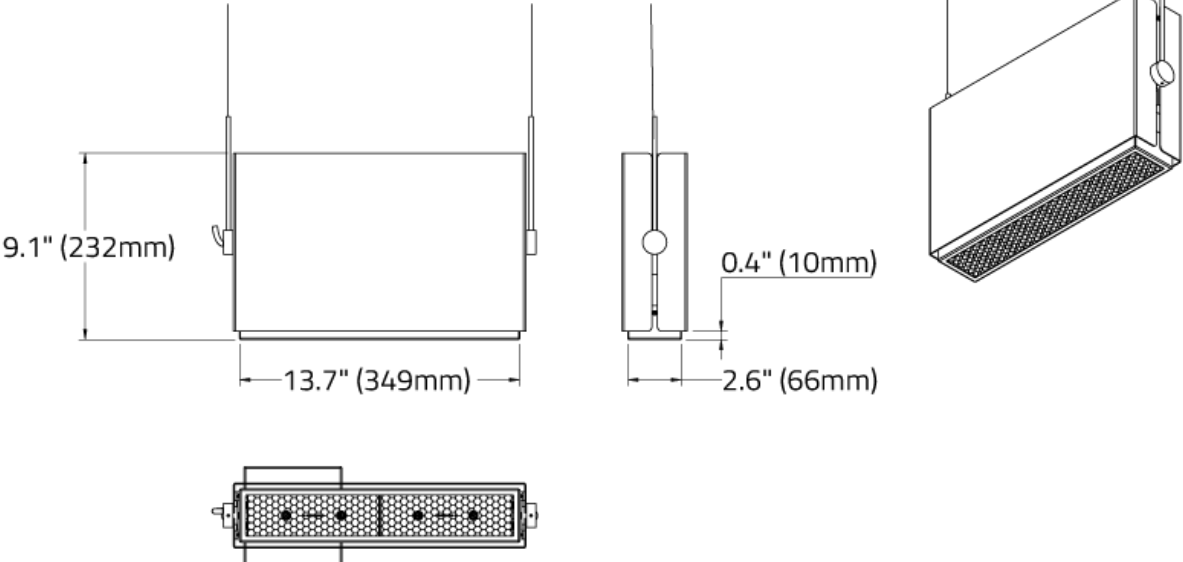
LONG SNOOT

ISOMETRIC BOTTOM VIEW (LONG SNOOT)

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LOUVRES

HEX CELL LOUVRE



LADDER LOUVRE

