



MATREX DUAL™

FULL SPECIFICATION SHEET



FIXTURE TYPE



FIXTURE CODE

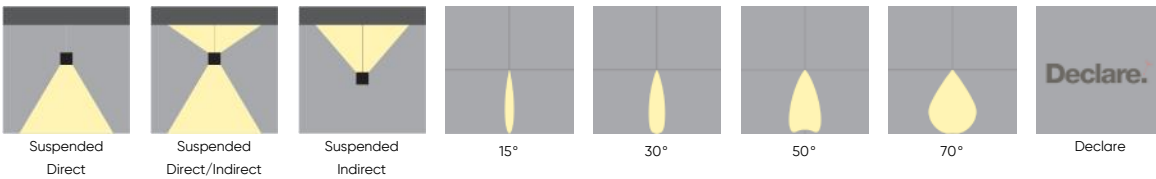


QUANTITIES

1 DESCRIPTION

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. 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. Custom paint finishes available to special order.

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.

SUSTAINABILITY

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

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.

5 DESIGN OPTIONS

FINISH - FIXTURE



FINISH - CANOPY



6 HOW TO ORDER

1. 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.

2. 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.

3. 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.

4. CRI

CR80 CRI 80+ **CR90** CRI 90+

5. CCT

CTA27 2700K ¹ **CTA30** 3000K **CTA35** 3500K **CTA40** 4000K

¹ 2700K is only available with CRI 80+

6. BEAM ANGLE (UPPER MODULE)

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

¹ Available only with Double Down luminaire and 2300 lumens.

7. BEAM ANGLE (LOWER MODULE)

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

¹ Available only with Double Down luminaire, Direct/Indirect luminaire, and 2300 lumens.

8. VOLTAGE

V1 120/277V	V2 240V ¹	V3 347V ²
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¹ Not available in North America. ² Only available with DA01 dimming.

9. 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.

10. 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

11. 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).

12. 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

13. 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 Snoot must be picked at time of order, if not ordering a louver. ² Unavailable with Double Up or Indirect only, BA70 beam angle.

³ Available with Double Down and Direct only, BA80 beam angle and 2300 lumens only.

14. 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 Snoot must be picked at time of order, if not ordering a louver. ² Unavailable with Double Up or Indirect only, BB70 beam angle.

³ Available with Double Down and Direct only, BB80 beam angle and 2300 lumens only.

15. 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.

16. SEPARATE SWITCHING

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

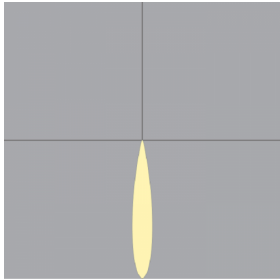
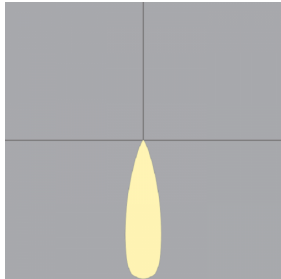
7 TECHNICAL DATA

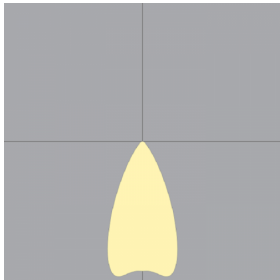
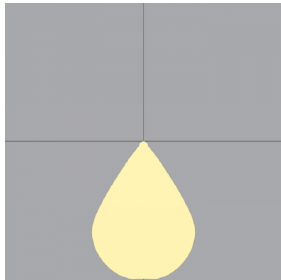
LUMINAIRE

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

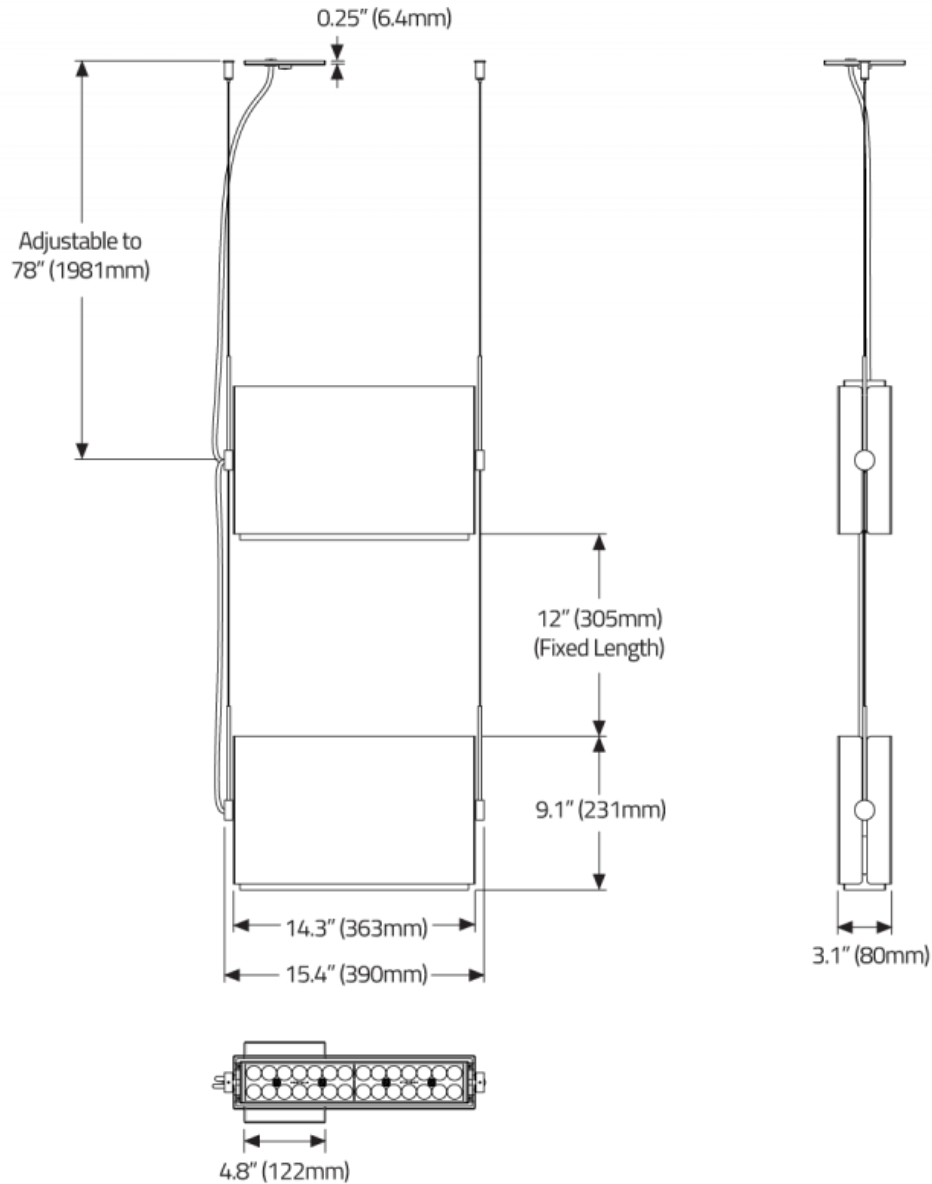
8 PERFORMANCE DATA

DIRECT 15° BEAM ANGLE	WATTS	LUMENS	LPW	DIRECT 30° BEAM ANGLE	WATTS	LUMENS	LPW
	32	4600	138		32	4600	140
	72	9000	127		72	8800	130
	114	13600	118		114	13000	120
	164	18000	110		164	17400	112

DIRECT 50° BEAM ANGLE	WATTS	LUMENS	LPW	DIRECT 70° BEAM ANGLE	WATTS	LUMENS	LPW
	32	4400	133		32	4400	134
	72	8800	123		72	8800	123
	114	13000	114		114	13200	115
	164	17400	107		164	17600	107

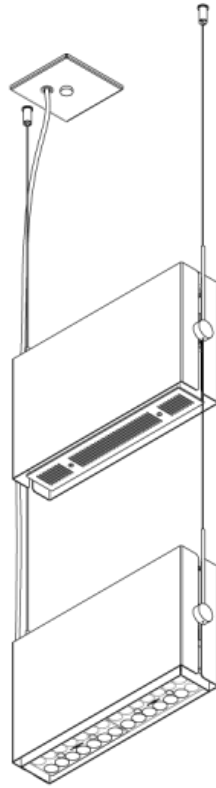
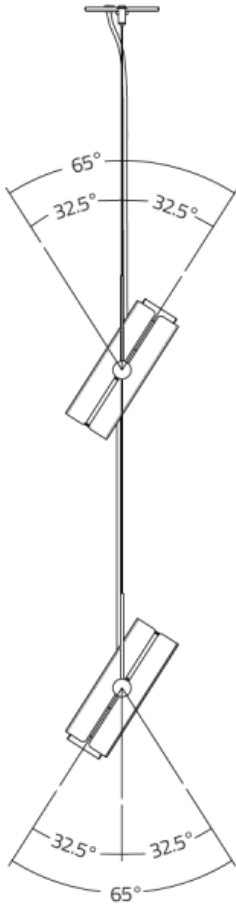
9 DIMENSIONAL DIAGRAMS

fixture profiles

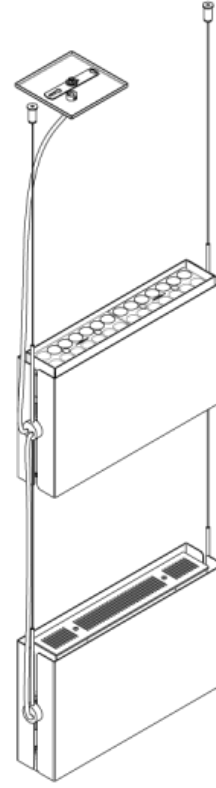


b MATREX DUAL™ - SUSPENDED
FULL SPECIFICATION SHEET

Direct/Indirect

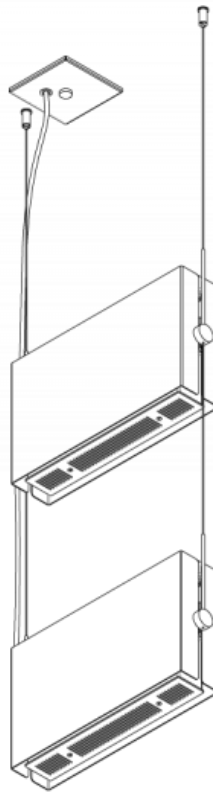
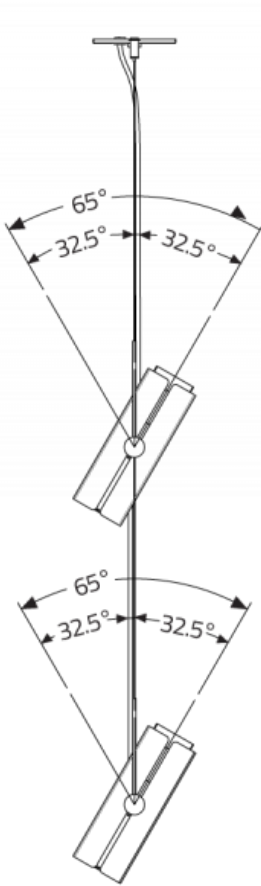


ISOMETRIC BOTTOM VIEW
(STRAIGHT)

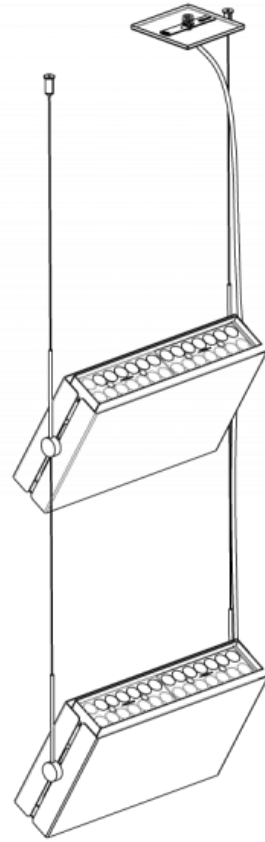


ISOMETRIC TOP VIEW
(STRAIGHT)

DOUBLE UP

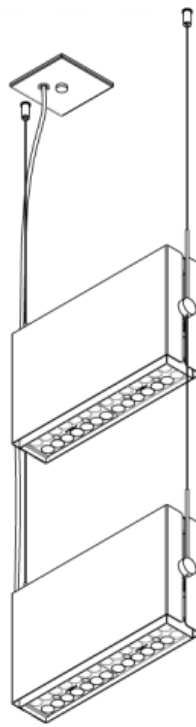
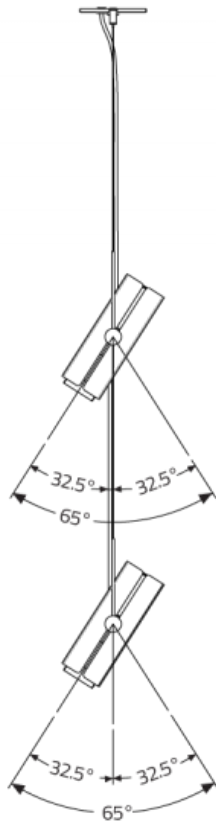


ISOMETRIC BOTTOM VIEW
(STRAIGHT)

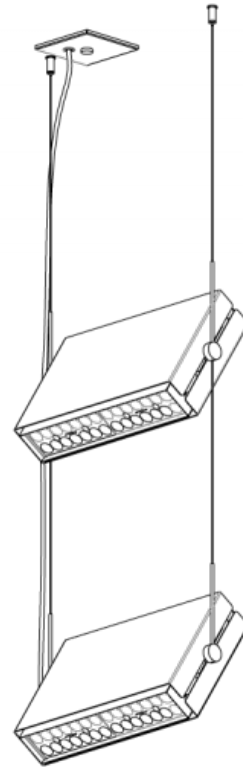


ISOMETRIC VIEW
(ANGLED)

DOUBLE DOWN

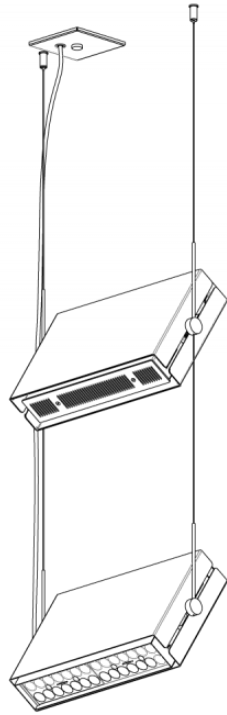


ISOMETRIC BOTTOM VIEW
(STRAIGHT)

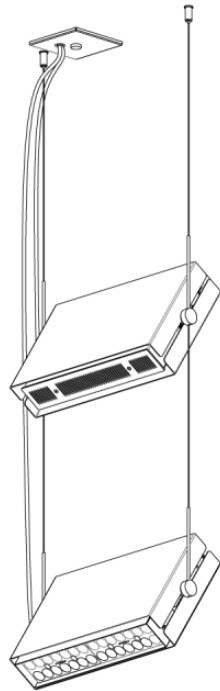


ISOMETRIC VIEW
(ANGLED)

SEPARATE SWITCHING (CS1, CS2)



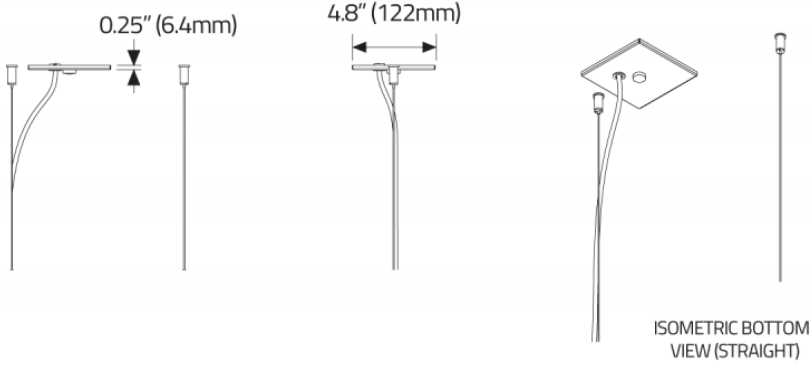
SINGLE CIRCUIT



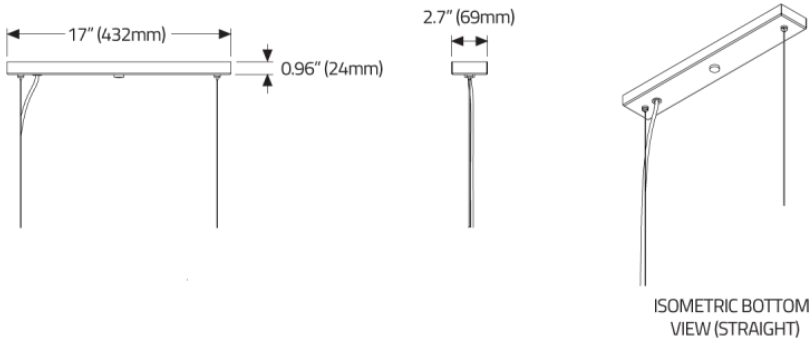
SEPARATE SWITCHING
(Two power cables supplied)

CANOPIES

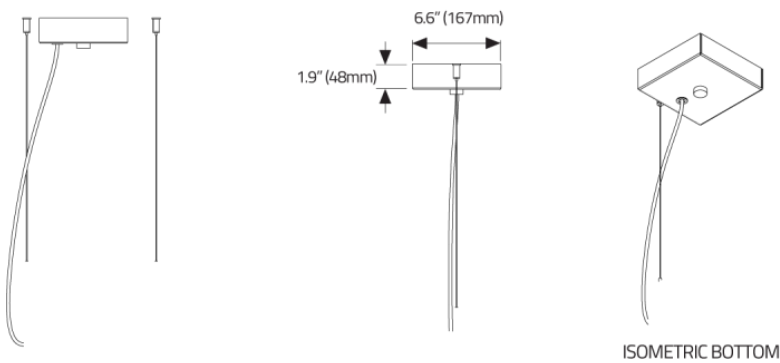
CANOPY A



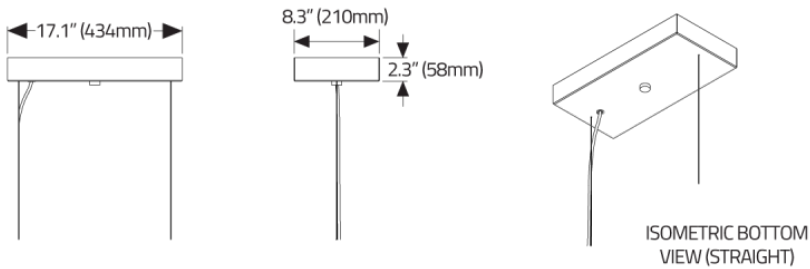
CANOPY B



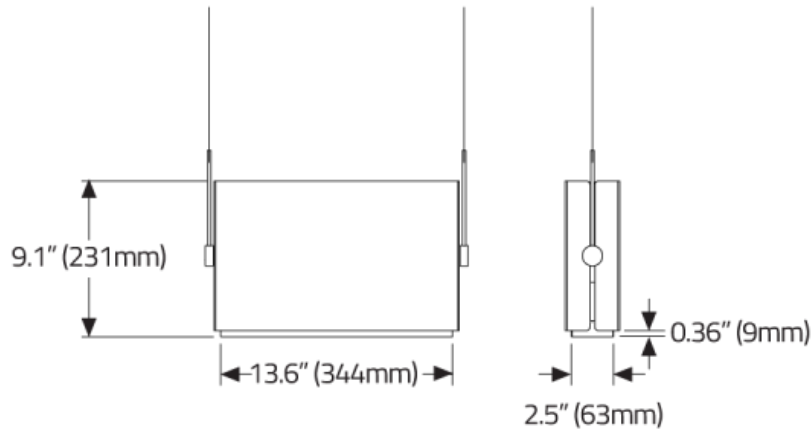
CANOPY C



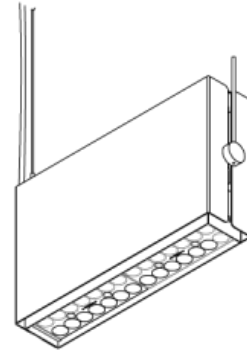
CANOPY D



STANDARD SNOOT

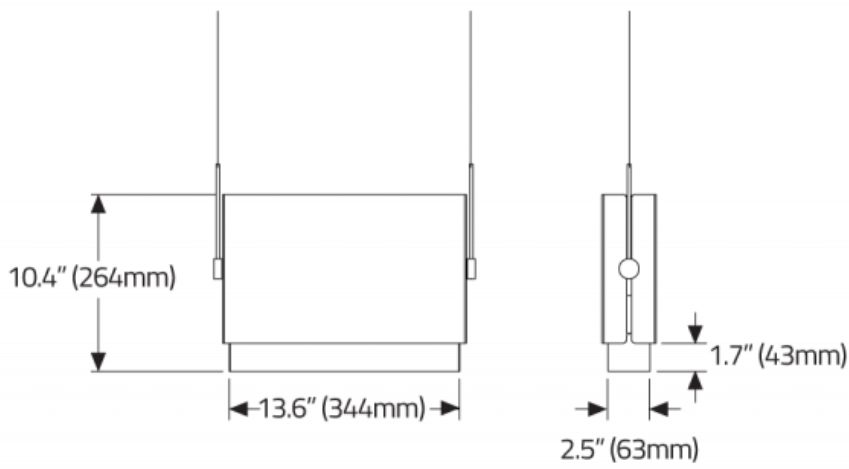


STANDARD SNOOT

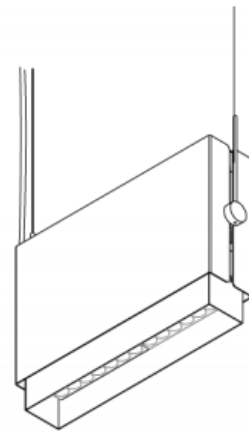


ISOMETRIC BOTTOM VIEW
(STANDARD SNOOT)

LONG SNOOT



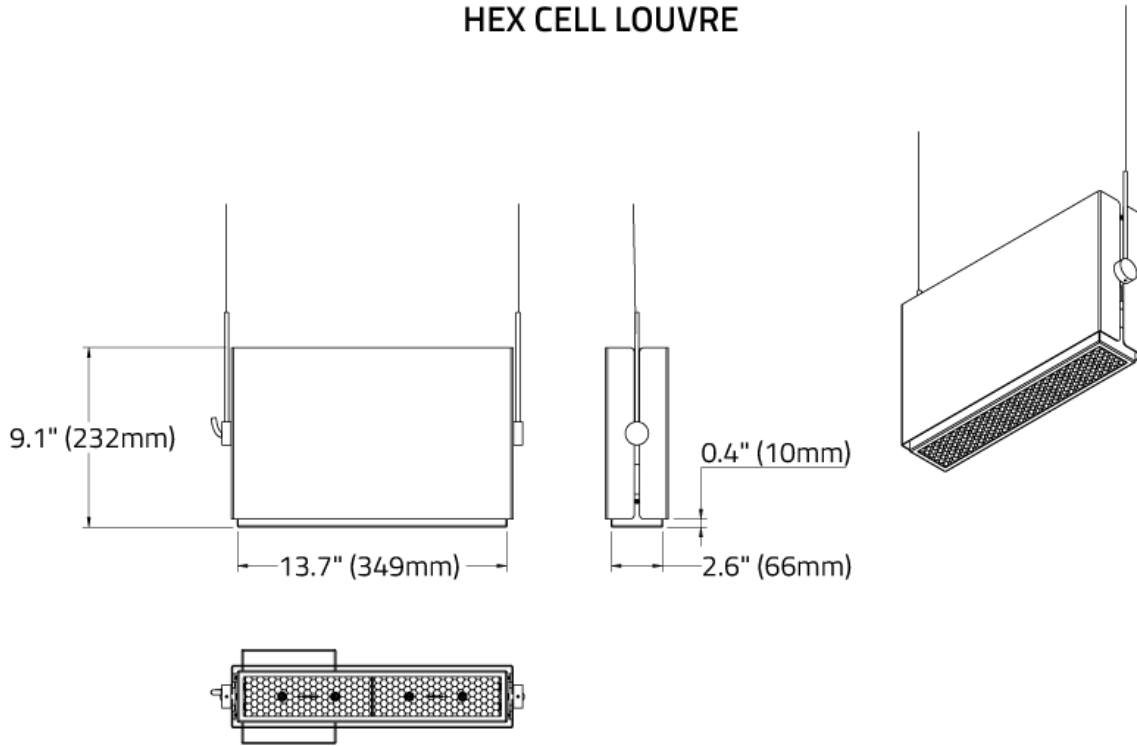
LONG SNOOT



ISOMETRIC BOTTOM VIEW
(LONG SNOOT)

LOUVRES

HEX CELL LOUVRE



LADDER LOUVRE

