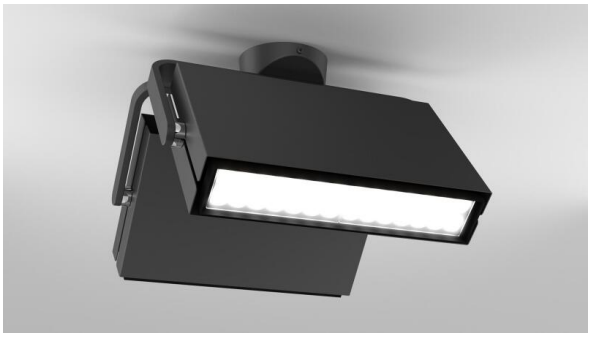
MATREX DUAL™

FULL SPECIFICATION SHEET



FIXTURE TYPE	FIXTURE CODE	QUANTITIES

1 DESCRIPTION

MATREX Surface brings more mounting flexibility and fixture adjustability to the **MATREX** family, lauded for its compact form factor, unique mounting system, and high lumen output with optics designed for precision. **MATREX** is ideally suited for spaces with multiple ceiling heights, such as atriums. 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


Ceiling Direct


Wall - Direct/Indirect


Wall - Indirect


Wall - Direct


15°


30°


50°


70°

Declare

3 APPROVALS

4 GENERAL SPECIFICATION

BODY AND TRIM

Steel and aluminum.

FINISH

Powder coated as specified. Custom paint finishes available to special order.

DRIVERS
HPF, electronic, 120-277V, 347V (EU-240V). The driver is integral to the fixture housing.

SENSORS
Consult factory regarding sensor compatibility.

REMOTE EMERGENCY SYSTEM
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).

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+.

APPROVALS
Damp Rated.

REPORTED L70 @25°C (77°F)
> 60,000 hrs.

ESTIMATED L70 @25°C (77°F)
>171,000 hrs.

DESIGNED BY
Serge Cornelissen.

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

6 HOW TO ORDER

1. LUMINAIRE

MXDF1P01 Direct, 18400 lms

All data shown at max output and nominal values.

2. LUMENS (HEAD A)

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 (HEAD B)

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 (HEAD A)

BA15 15° **BA30** 30° **BA50** 50° **BA70** 70°

BA80 50°x80° [1]

[1] Available with NT8 Ladder Louver only.

7. BEAM ANGLE (HEAD B)

BB15 15° **BB30** 30° **BB50** 50° **BB70** 70°

BB80 50°x80° [1]

[1] Available with NU8 Ladder Louver only.

8. VOLTAGE

V1 120/277V **V2** 240V [1] **V3** 347V [2]

[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]

[1] Not available with V3. [2] Not available in North America.

10. 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. SNOOTS AND LOUVERS (HEAD A)

NT1 Standard Snoot - Black [1]

NT2 Standard Snoot - White [1]

NT3 Long Snoot - Black [1]

NT4 Long Snoot - White [1]

NT7 Hex Louver - Black [2]

NT8 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 ordering a louver. [2] Not available with BA70 beam angle.

[3] Available with BA80 beam angle and 2300 lumens only.

12. SNOOTS AND LOUVERS (HEAD B)

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] Not available with BB70 beam angle.

[3] Available with BB80 beam angle and 2300 lumens only.

13. EMERGENCY

E0 Emergency system not required

E2 Emergency system - Remote [1]

[1] Remote emergency in the lower module only. Not available with V3. Integral is not available.

14. SEPARATE SWITCHING

CS1 Single circuit **CS2** Separate switching

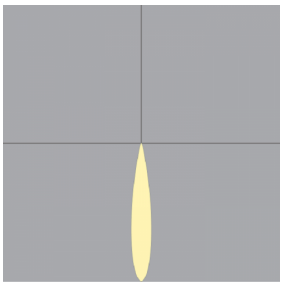
7 TECHNICAL DATA

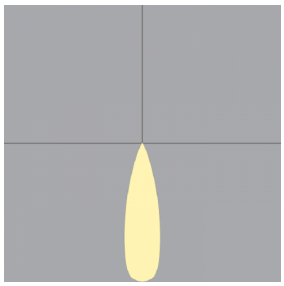
LUMINAIRE

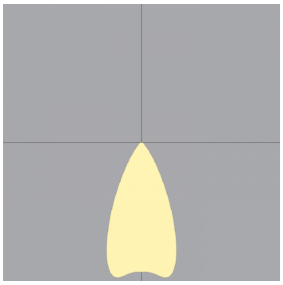
All data shown at max output and nominal values.

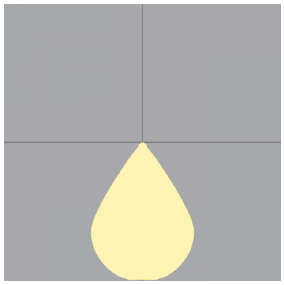
Code	**MXDF1P01**
Light Direction	Direct
Wattage	164
Delivered lms	18400
LPW	130

8 PERFORMANCE DATA

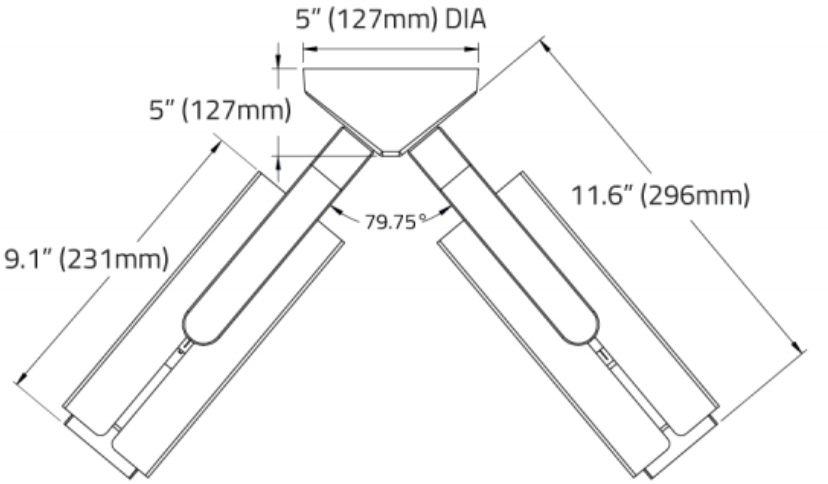
DIRECT 15° BEAM ANGLE	WATTS	LUMENS	LPW
	32 72 114 164	4600 9000 13600 18000	138 127 118 110

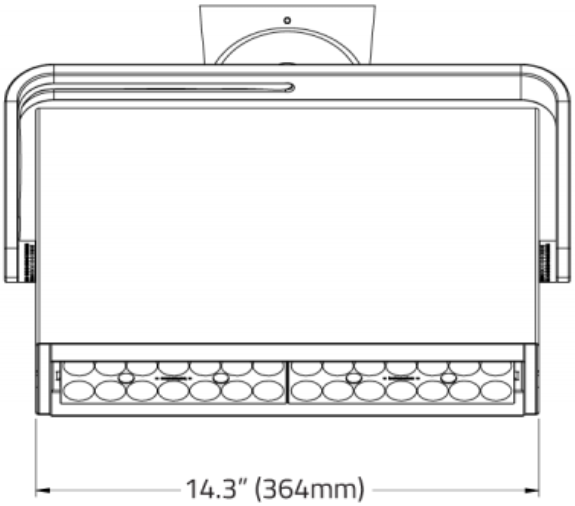
DIRECT 30° BEAM ANGLE	WATTS	LUMENS	LPW
	32 72 114 164	4600 8800 13000 17400	140 130 120 112

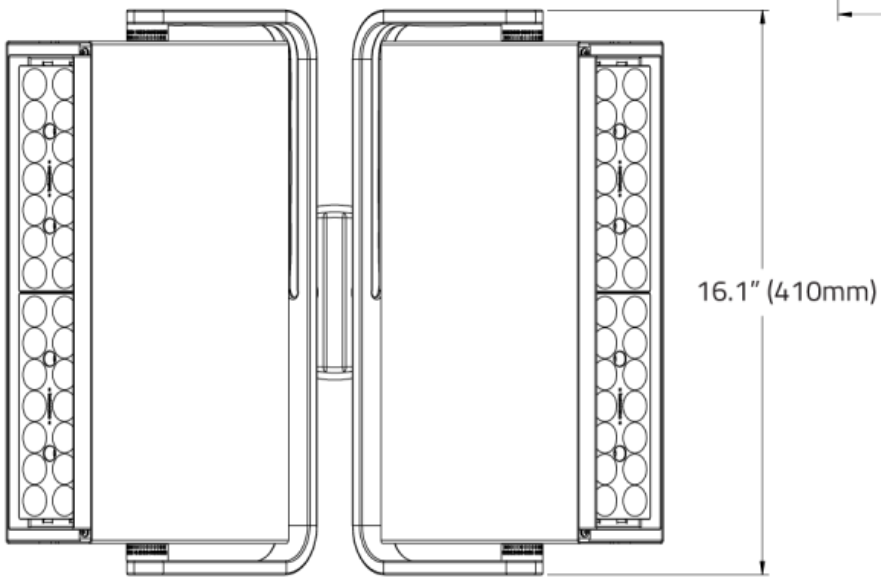
DIRECT 50° BEAM ANGLE	WATTS	LUMENS	LPW
	32 72 114 164	4400 8800 13000 17400	133 123 114 107

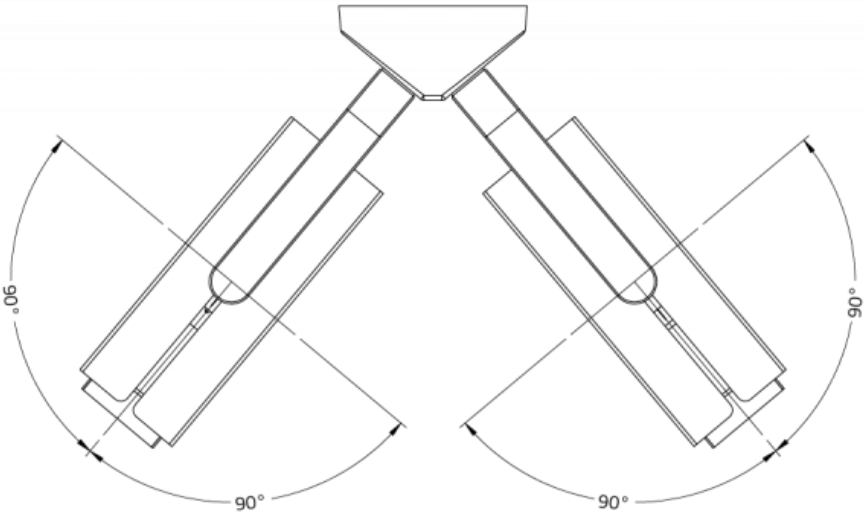
DIRECT 70° BEAM ANGLE	WATTS	LUMENS	LPW
	32 72 114 164	4400 8800 13200 17600	134 123 115 107

9 DIMENSIONAL DIAGRAMS

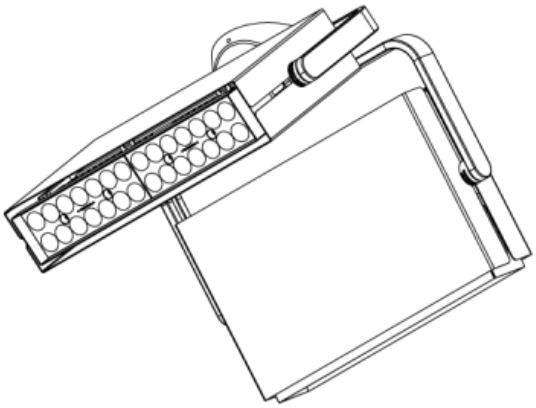




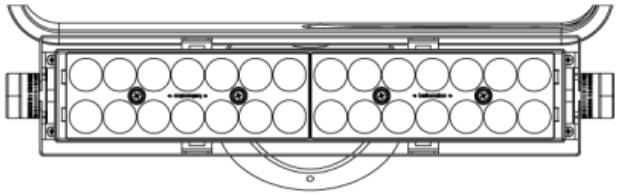




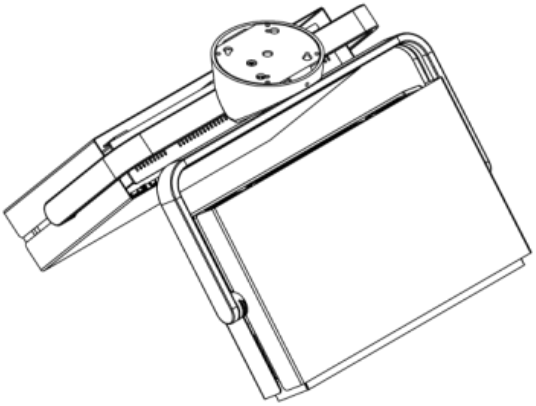
ISOMETRIC
BOTTOM VIEW



FIXED
YOKE

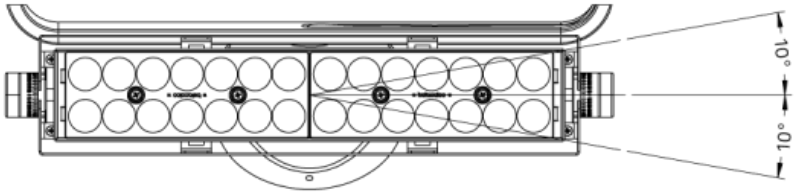


VIEW NORMAL TO YOKE



ISOMTERIC
TOP VIEW

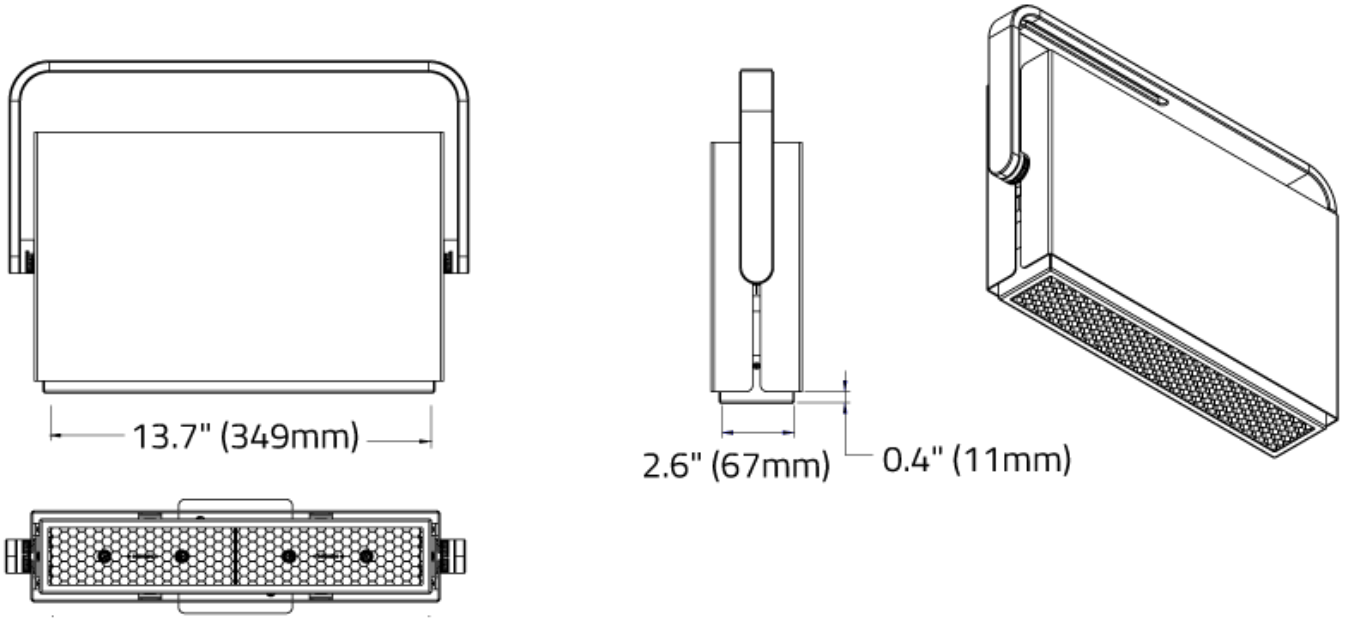
ROTATING
YOKE



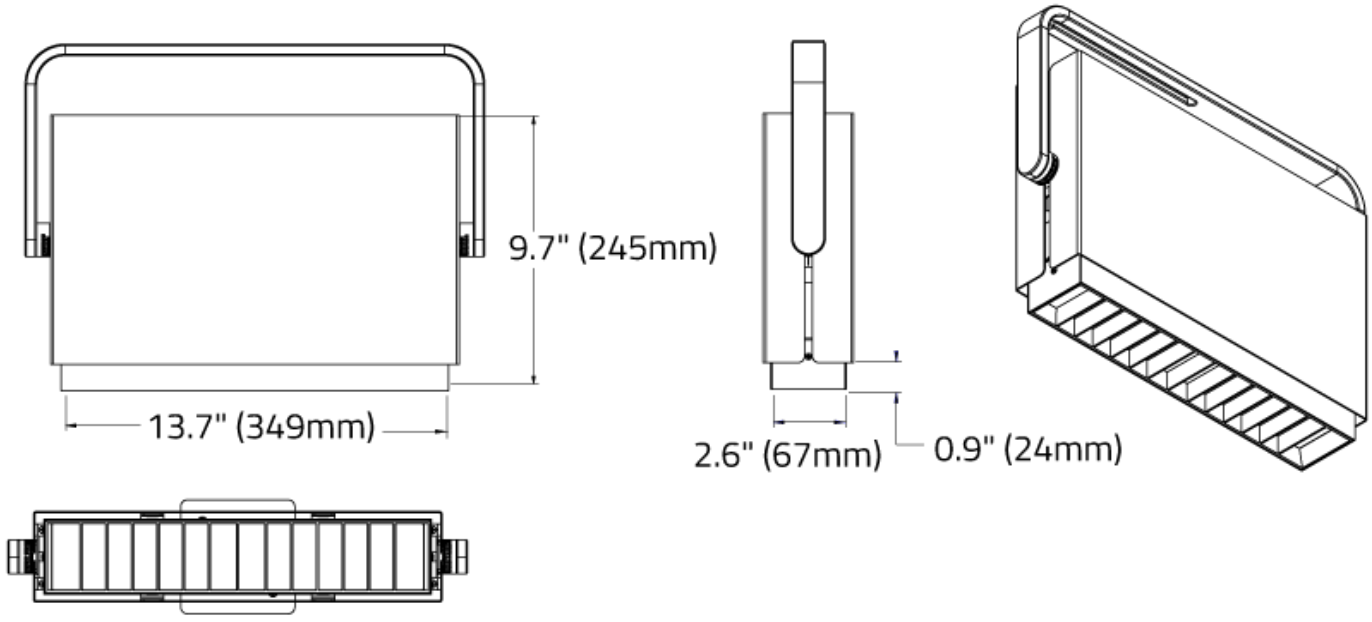
VIEW NORMAL TO YOKE

LOUVRES

HEX CELL LOUVRE

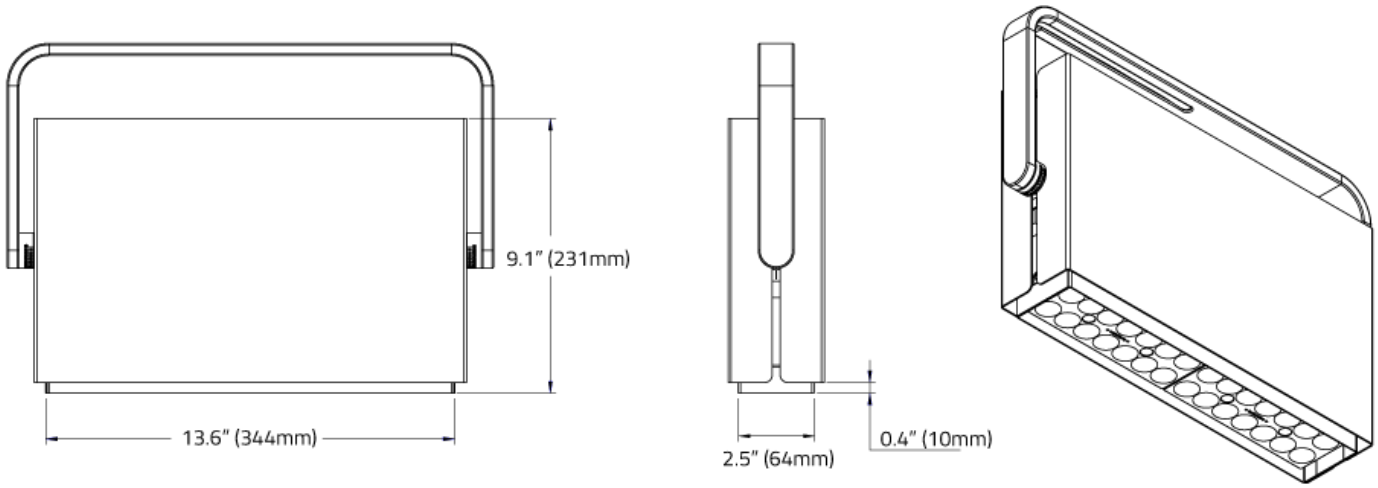


LADDER LOUVRE



SNOOTS

STANDARD SNOOT



LONG SNOOT