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SATURN MINI
Miniature Direct View Mini Inground LED Marker Light

Concept: Miniature direct view mini recessed ingrade marker light.

Materials: Milled anodized polished aluminum body.

Trim: Front made entirely of screen-printed, opal white 4mm thick glass. **A**Fixture suitable for use in marine grade environments.

Optic: High Efficiency LED Emitter. Precision optic system with PMMA lenses for the wide flood version.

Mounting: Recessed mounting with installation sleeve (required).

Installation: Flush installation sleeve with adjustable collar for precision finished floor mounting or raised installation mounting. Pre-cabled with 2ft direct burial 18-2ga cable for connection to remote power supply.

Power Supply: Remote Class 2 120V-277VAC power supply required, ordered seperately.

Wattage: 3W

Color Temperature: 3000K / 4000K

CRI: Ra84

Delivered Lumens: **3000K**   **4000K**
   Wide Flood 122° = 11Lm   12Lm

Lumen Maintenance (L70): 50,000hrs
Calculation for LED fixtures are based on measurements that comply with IES LM-80.

Voltage: 24VDC

IP Rating: IP67 rated

Load Rating: Resistant to static loads up to 4,496lbs in flush mounted cement and pavement installations.

Certifications: cULus Class 2 Wet Location Listed

Tested in accordance with LM-79-08

Energy efficient for California installations.

Warranty: 5 year limited warranty

A*Not to be in direct contact with salt for extended periods of time or used with corrosive agents.*

| Marine | Drive Over | IP67 | Cool Touch | c(UL)us Class 2 |

PRODUCT CODE	DRIVER	LENS	WATTAGE	COLOR TEMP	VOLTAGE	+	INSTALLATION	+	POWER SUPPLY
SAM – SATURN Mini	**RP** – Remote Driver	**WF** — Wide Flood 122°	**L1** — 3W	**30** — 3000K	**24** — 24VDC		*Required (See Installation Options)*		*Required (See Power Supply Options)*
				40 — 4000K					

Views

O.D. Ø1.38"

0.31"

1.16"

Ø1.10"
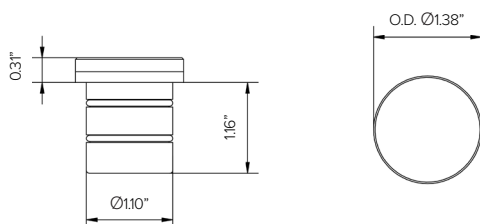
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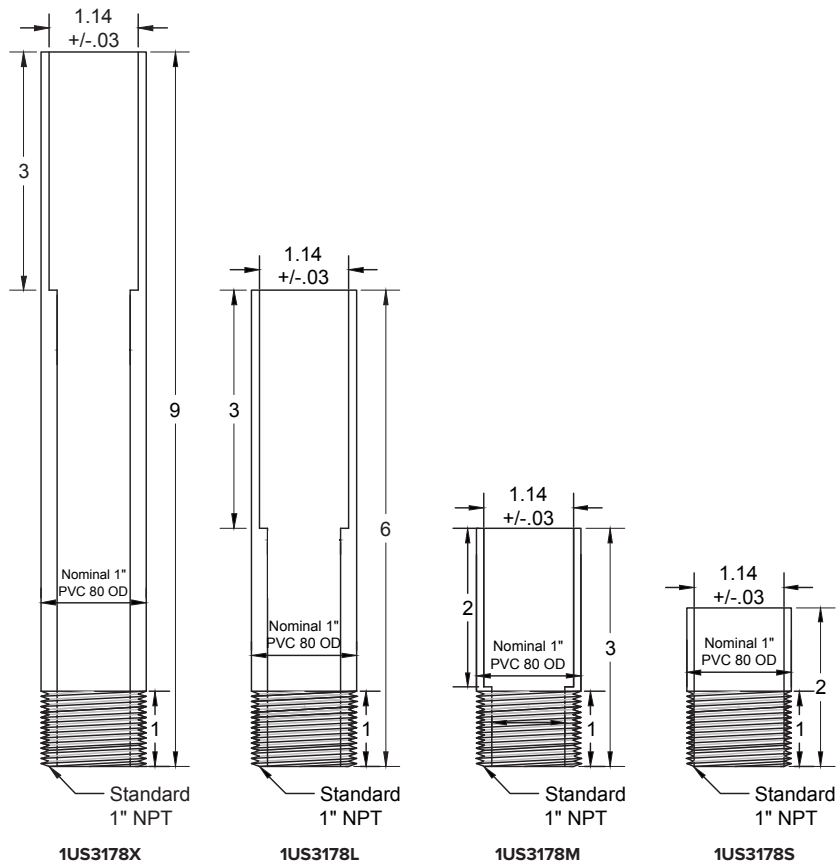| INSTALLATION (REQUIRED)	
1US3178S	2" installation sleeve with flush mount collar. Tube with threaded bottom end for height adjustment up to 3/4" for precision mounting.
1US3178M	3" installation sleeve with flush mount collar. Tube with threaded bottom end for height adjustment up to 3/4" for precision mounting. 2" field cut allowance.
1US3178L	6" installation sleeve with flush mount collar. Tube with threaded bottom end for height adjustment up to 3/4" for precision mounting. 2" field cut allowance.
1US3178X	9" installation sleeve with flush mount collar. Tube with threaded bottom end for height adjustment up to 3/4" for precision mounting. 2" field cut allowance.
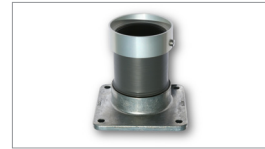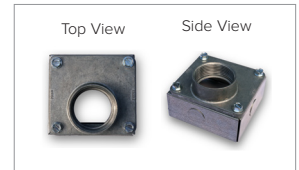
INSTALLATION (OPTIONAL)	
1US3178HB	HUB with 3/4" height adjustability for field leveling mounted on 3-3/4" square j-box cover. **Optional for use of sleeve only.**
1US317BX	3-1/2" x 3-4/4" installation J-box. Aluminum with 2ea 1/2" and 2ea 3/4" knockouts. **Optional for use with HUB only.**

Installation Sleeve with HUB

Top View   Side View

J-box (1US317BX)

Installation Sleeves

1.14 +/-.03

3

9

Nominal 1" PVC 80 OD

1

Standard 1" NPT

1US3178X

1.14 +/-.03

3

6

Nominal 1" PVC 80 OD

1

Standard 1" NPT

1US3178L

1.14 +/-.03

2

3

Nominal 1" PVC 80 OD

1

Standard 1" NPT

1US3178M

1.14 +/-.03

2

Nominal 1" PVC 80 OD

1

Standard 1" NPT

1US3178S

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Installation Diagram

In-Ground Mounting

Finish Grade
O.D. Ø1.58"

Collar for flush mount installation included with sleeve.

Can be thread into hub from 0.25" - 1.00"

Sleeve Height (Collar Included) 2.38" to 9.38"

Mark 1.00" Tread dim.

1US3178S/M/L/X Installation sleeve available in 2"/3"/6"/9" lengths.

DIRT/SOIL/ CONCRETE/ GRAVEL

4.38" to 12.13"

Hub Height 1.50"

1US3178HB Threaded HUB allows for 3/4" height adjustability.
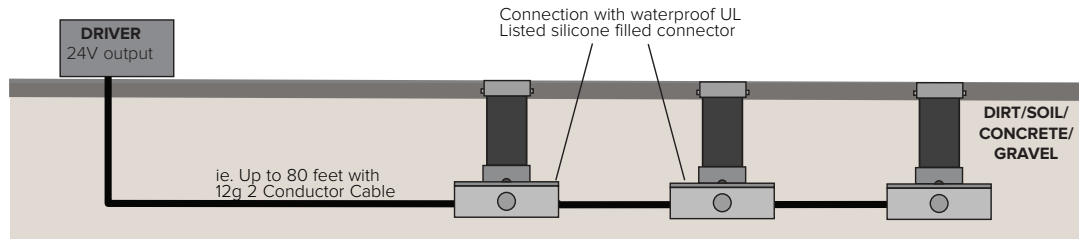
1.5"

1US317BX J-box with 2ea 1/2" and 2ea 3/4" knockouts.

Overall Heights
2" Installation Sleeve = 4.38" Min to 5.13" Max (Collar Included)
3" Installation Sleeve = 5.38" Min to 6.13" Max (Collar Included)
6" Installation Sleeve = 8.38" Min to 9.13" Max (Collar Included)
9" Installation Sleeve = 11.38" Min to 12.13" Max (Collar Included)

Flush Wall Mount

2.88" Min. 12.13" Max. (Collar Inlcuded)

O.D. Ø1.58"

1E3178S/M/L Installation Sleeve (Flush Mount)

Wall Facia

Recessed wall sleeve for flush mounting with flush mount collar.

Surface Wall Mount

0.31"
2.50" Min. 10.25" Max.

O.D. Ø1.38"

1E3178S/M/L Installation Sleeve

Wall Facia

Recessed wall sleeve for surface mount outer glow, no collar.

Wiring Diagram

DRIVER 24V output

Connection with waterproof UL Listed silicone filled connector

DIRT/SOIL/ CONCRETE/ GRAVEL

ie. Up to 80 feet with 12g 2 Conductor Cable

NOTE: Low voltage outdoor landscape wiring to be installed by a certified electrician per local building requirements, max 4A 96W circuit.

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Power Supply (REQUIRED)	Type	Wattage	Input/Output Voltage	Dimmable	IP Rating	Output	Dimensions
DMLE301242UD	EMCOD MLE-UD ELECTRONIC DRIVER WITH WIRING COMPARTMENT.	30W	120-277V / 24V	FWD / REV PHASE / TRIAC / 0-10V / PWM	NEMA3R ENCLOSURE	UL CLASS 2	4.47" X 6.79" X 1.38"
DMLE601242UD	EMCOD MLE-UD ELECTRONIC DRIVER WITH WIRING COMPARTMENT.	60W	120-277V / 24V	FWD / REV PHASE / TRIAC / 0-10V / PWM	NEMA3R ENCLOSURE	UL CLASS 2	4.47" X 6.79" X 1.38"
DMLE961242UD	EMCOD MLE-UD ELECTRONIC DRIVER WITH WIRING COMPARTMENT.	96W	120-277V / 24V	FWD / REV PHASE / TRIAC / 0-10V / PWM	NEMA3R ENCLOSURE	UL CLASS 2	5.16" X 7.73" X 1.54"
DMLE1922242UD	EMCOD MLE-UD ELECTRONIC DRIVER WITH WIRING COMPARTMENT.	2X96W	120-277V / 24V	FWD / REV PHASE / TRIAC / 0-10V / PWM	NEMA3R ENCLOSURE	UL CLASS 2	5.04" X 10.94" X 1.81"
DMLE2882242UD	EMCOD MLE-UD ELECTRONIC DRIVER WITH WIRING COMPARTMENT.	3X96W	120-277V / 24V	FWD / REV PHASE / TRIAC / 0-10V / PWM	NEMA3R ENCLOSURE	UL CLASS 2	5.04" X 10.94" X 1.81"
DELV30124DJBX	MAGNITUDE SOLIDRIVE ELECTRONIC DRIVER WITH BUILT-IN JUNCTION BOX.	30W	120-277V / 24V	0-10V 1%	IP66	UL CLASS 2	12.1" X 2.36" X 1.4"
DELV30124D	MAGNITUDE SOLIDRIVE ELECTRONIC STANDALONE DRIVER. **UL LISTED ENCLOSURE PROVIDED BY OTHERS.**	30W	120-277V / 24V	0-10V 1%	IP66	UR CLASS 2	7.5" X 2.36" X 1.4"
DELV60124DJBX	MAGNITUDE SOLIDRIVE ELECTRONIC DRIVER WITH BUILT-IN JUNCTION BOX.	60W	120-277V / 24V	0-10V 1%	IP66	UL CLASS 2	12.1" X 2.36" X 1.4"
DELV60124D	MAGNITUDE SOLIDRIVE ELECTRONIC STANDALONE DRIVER. **UL LISTED ENCLOSURE PROVIDED BY OTHERS.**	60W	120-277V / 24V	0-10V 1%	IP66	UR CLASS 2	7.5" X 2.36" X 1.4"
DELV96124DJBX	MAGNITUDE SOLIDRIVE ELECTRONIC DRIVER WITH BUILT-IN JUNCTION BOX.	96W	120-277V / 24V	0-10V DIMMING 1%	IP66	UL CLASS 2	12.1" X 2.36" X 1.4"
DELV96124D	MAGNITUDE SOLIDRIVE ELECTRONIC STANDALONE DRIVER. **UL LISTED ENCLOSURE PROVIDED BY OTHERS.**	96W	120-277V / 24V	0-10V DIMMING 1%	IP66	UR CLASS 2	7.5" X 2.36" X 1.4"
PS060	LUTRON HI-LUME PREMIER 0.1% CONSTANT VOLTAGE DRIVER WITH UL LISTED ENCLOSURE	96W	UNIVERSAL 120-277 VAC	HI-LUM DIMMABLE 0.1%	IP20/NOM CERTIFIED	UL CLASS 2	10.5" x 5.5" x 2"[1]

[1] Dimensions include enclosure with mounting bracket.
* Constant voltage drivers 50/60HZ, voltage regulated with short circuit protection. Operating temperature -40 C- 80° C
* Installation of power supply must be compliant to Class 2 installation standards. Refer to NEC and local building code requirements.
* Consult factory for additional driver options (ie: DMX, DALI, wattage, size, shape, Lutron, ELDO, or others).

Max Fixtures Per Driver

Fixture Wattage		Driver Wattage							
		30W	60W	96W	90W	2X90W	3X90W	100W	2X100
	3W	8	16	25	24	48	72	26	53

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Photometry
IES files wattage and efficiency calculations based with supplied driver

3000K		H(m)	D(m)	Emax(lx)
Ra84			122°	
Fixture Power	3W	1	3.59	4
Source Flux	353lm	2	7.18	1
Fixture Flux	11lm	3	10.77	0
Efficacy	4lm/W	4	14.36	0
Imax	4cd	5	17.95	0

TS1052   Imax=10cd/klm

4000K		H(m)	D(m)	Emax(lx)
Ra84			122°	
Fixture Power	3W	1	3.59	4
Source Flux	378lm	2	7.18	1
Fixture Flux	12lm	3	10.77	0
Efficacy	4lm/W	4	14.36	0
Imax	4cd	5	17.95	0

TS1052   Imax=10cd/klm