Targetti

VADER TW

All-in-One Extremely Adjustable Floodlight Projector

VADER shown in Ferrite Dark Grey finish.

5.03"   5.98"

6.89"

Marine   RoHS3   IP66   cULus
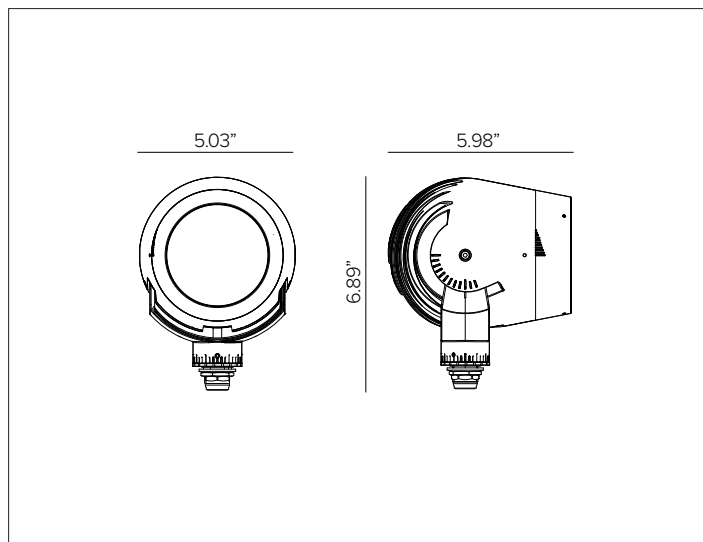
CONCEPT

VADER is an All-in-One adjustable flood light projector with dynamic tunable white LED's that offers the extreme flexibility in both optic and mounting configuration.

MECHANICAL CHARACTERISTICS

Housing	5.03"W x 5.98"D x 6.89"H
Materials	Painted Anodized Die-Cast Aluminum body and mounting bracket. Extra-clear sealed tempered glass.
Finish	Textured finish.
	● Ferrite Dark Grey ● Heritage Brown ● Bronze
	● Black ○ White ● Sandstone Grey
Power Connection	Pre-cabled with IP68 Connectors for plug-and-play connection to remote power supply and in series other light modules.
Functionality	Each module has a mechanical locking to provide specific aiming. Fixtures are adjustable up from -20° to +90° on the vertical surface with aim lock set screw with and a free rotation of 355° with degree indicators every 15°. Different Optical accessories specifically designed to control the beam and manage effects.
Mounting	Fixture can be installed directly to mounting surface or used with optional mounting installation accessories.
Weight	7.7 lbs
EPA	0.32 *Includes Cd drag coefficient of 1.53. Does NOT include any optical accessories.*
Protection	IP66 / IP68[B]
Impact	IK09

CERTIFICATIONS

cULus Wet Location Listed E479873.
Tested in accordance with LM-79-08.
Compliant for California installations.
RoHS3 EU 215/863

WARRANTY

5 year limited warranty.

[A] Fixture body complete with marine grade cataphoresis suitable for use in marine grade environments. Stainless steel trim will need to be maintained and cleaned regularly to avoid mineral deposits. Not to be in direct contact with salt or corrosive agents for extended periods of time.
[B] Temporary immersion up to 24 hours at a max depth of 2 meters. Installation of fixture requires proper drainage to prevent any standing water. Should not be used for permanent submersion.

ELECTRICAL CHARACTERISTICS

Power Supply	Remote Class 2 120V-277V AC power supply required.
Wattage	15W Nominal
Voltage	48V DC
Control	Remote Three-in-One Smart Control Pod. 0-10V / 1-10V 1% Dim DMX512A + RDM 1.20 / DALI2 0% Dim
Ambient Temperature	-25°C / +50°C (122°F)

SOURCE

High-Efficiency LED COB.

	CCT (Nominal)	CRI	SDCM
TM30	TW 1800K – 4000K	90	1

OPTIC

The ZOOM optic is adjustable by hand without opening the product from SP to MWFL with degree indicators every 2°.

	ZOOM 22° – 41°
Beam	
Delivered Lumens 1800K	656Lm – 650Lm
2900K	914Lm – 909Lm
4000K	1,114Lm – 1,065Lm
Efficacy	72Lm/W max. Refer to photometric graphs for specific values.
Lifetime	L89/B10 30,000hrs / L85/B10 50,000hrs / L78/B10 80,000hrs / L74/B10 100,000hrs at max TA +25°C
Photobiological Classification	Low risk safety RG1

SUSTAINABILITY

Luminaire designed for disposal/recycling at end-of-life. Replaceable LED light source and control gear by a Targetti technician.

VADER TW

SPECIFICATION INFORMATION

VADER		/		/		/		/	
1	2	3	4	5	6	6			

Ex: VADERFE / A035 / PS052

OPTIONAL — **REQUIRED** — **OPTIONAL**

1 - PRODUCT CODE		2 - FINISH		3 - OPTIONAL	4 - CONTROL
VADER —	VADER Floodlight Projector with Zoom Optic and Tunable White Capability	**FE** — Ferrite Dark Grey		**PM** ᶜ — Pole Mount 25ft Cable	Control Pod *See section for details*
		HB — Heritage Brown			
		BZ — Bronze			
		WT — White			
		BT — Black			
		SG — Sandstone Grey			
		RAL — Custom RAL			

5 - POWER SUPPLY	6 - OPTICAL ACCESSORIES	7 - INSTALLATION ACCESSORIES	
Power Supply *See section for details*	Blade of Light Linear Spread Lens *See section for details*	Surface Hexagonal Base *See section for details*	Ground Post *See section for details*
	Asymmetric Snoot *See section for details*	Blank Hexagonal Base *See section for details*	Earth Spike *See section for details*
	Super Snoot *See section for details*	Surface Base *See section for details*	Tree Strap *See section for details*
	Asymmetric Snoot *See section for details*	Surface Plate *See section for details*	Tree Bracket *See section for details*
		Surface Bracket *See section for details*	Tree Strap Connection Box *See section for details*
		Surface Canopy *See section for details*	Mesh Wire Protection *See section for details*
		Double Surface Base *See section for details*	
		Triple Surface Base *See section for details*	
		Arm Mount *See section for details*	

ᶜ **Pole mount 25ft cable required with Targetti** Event Pole **configurations.**

KEY FEATURES

ZOOM
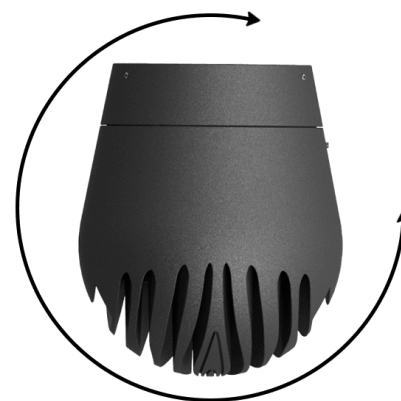*22° to 41° with degree indicators every 2° and a fix locking screw.*

TILT
Tilt Rotation on the vertical axis from -20° to +90° with aim lock set screw.

ROTATION
The luminaire can be easily rotated 355° in the horizontal plane with degree indicators every 15°.

4 – CONTROL (REQUIRED)

1.22" 2.72" 2.72"

Control pod. Three-In-One Smart control system (0-10V / DALI / DMX). Can be mounted inside installation accessories or 4"x4" Junction Box, etc.
Each Control Pod:
0-10V 1ea two channel control zone for up to 30 fixtures.
DALI up to 64ea independently controlled fixtures.
DMX two channel up to 64ea independently controlled fixtures.

Part No.   **A035**

5 - POWER SUPPLY (REQUIRED)

ENCLOSURE								
Part No.	Wattage	Control	Dim Range	Rating	In / Out Voltage	Certification	Dimensions (Enclosure)	Description
PS052	40W	0-10V / DALI / DMX via control pod	1% 0-10V 0% DALI / DMX	NEMA3R	120-277V / 48V	UL CLASS 2	6.3" x 10.79" x 2.17"	MEAN WELL HLG ELECTRONIC DRIVER.
PS051	60W	0-10V / DALI / DMX via control pod	1% 0-10V 0% DALI / DMX	NEMA3R	120-277V / 48V	UL CLASS 2	6.3" x 10.79" x 2.17"	MEAN WELL HLG ELECTRONIC DRIVER.
PS050	96W	0-10V / DALI / DMX via control pod	1% 0-10V 0% DALI / DMX	NEMA3R	120-277V / 48V	UL CLASS 2	6.3" x 10.79" x 2.17"	MEAN WELL HLG ELECTRONIC DRIVER.

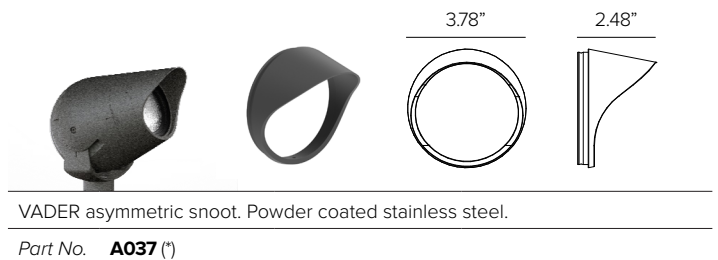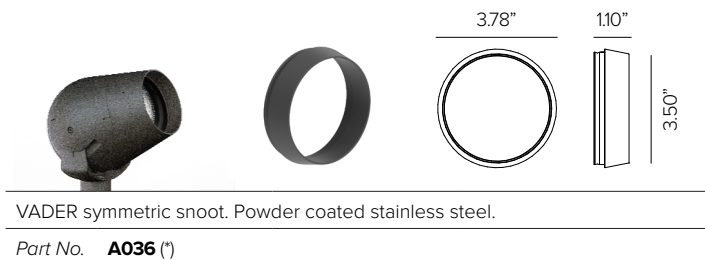***NON-DIMMABLE, DIMMING ACHIEVED FROM DIRECT CONTROL POD NOT THROUGH DRIVER.**
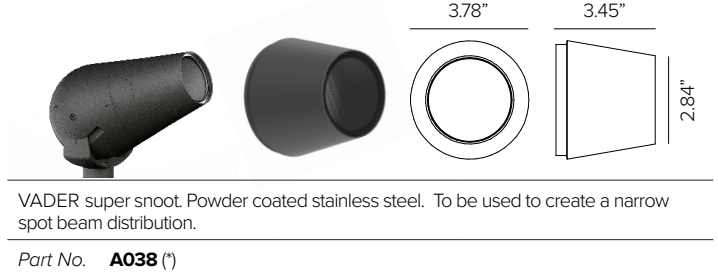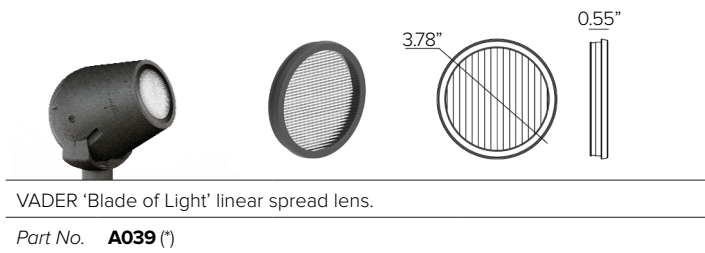
MAX FIXTURES PER DRIVER			
	Driver Wattage		
Fixture Wattage	40W	60W	96W
14W	**2**	**3**	**6**

6 – OPTICAL ACCESSORIES (OPTIONAL)

MAXIMUM OF ONE ACCESSORY PER FIXTURE.

3.78"   0.55"

VADER 'Blade of Light' linear spread lens.

Part No.   **A039** (*)

3.78"   3.45"   2.84"

VADER super snoot. Powder coated stainless steel. To be used to create a narrow spot beam distribution.

Part No.   **A038** (*)

3.78"   1.10"   3.50"

VADER symmetric snoot. Powder coated stainless steel.

Part No.   **A036** (*)

3.78"   2.48"

VADER asymmetric snoot. Powder coated stainless steel.

Part No.   **A037** (*)

7 – INSTALLATION ACCESSORIES (OPTIONAL)

MAXIMUM OF ONE INSTALLATION PER FIXTURE

5.95"   1.46"   6.65"

VADER surface hexagonal mounting base for plug-n-play control and mounting. Designed for cluster or pattern installations on surfaces. Allows multiple fixtures to connect while hiding connections and cables.

Part No.   **A042** (*)

5.95"   1.46"   6.65"

VADER blank surface hexagonal base cover. To be used in addition to A042 to continue clusters or patterns on surfaces.

Part No.   **A043** (*)

4.88"   14.17"   3.07"

Double surface base. Powder coated stainless steel.

Part No.   **A045** (*)

4.88"   21.26"   3.07"

Triple surface base. Powder coated stainless steel.

Part No.   **A046** (*)

● Ferrite Dark Grey (**FE**)*   ● Heritage Brown (**HB**)*   ● Bronze (**BZ**)*   ○ White (**WT**)*   ● Black (**BT**)*   ○ Sandstone Grey (**SG**)*

***Add suffix to end of number to identify finish (EX. A042HB)**

7 – INSTALLATION ACCESSORIES (OPTIONAL)

MAXIMUM OF ONE INSTALLATION PER FIXTURE

4.61"
0.98" 0.98"
1.69" 2.63"

Surface mounting bracket. Powder coated stainless steel.

Part No.	**A044** (*)

4.13" 0.625"
3.50"

Low profile surface canopy. Powder coated aluminum with ½" NPT to mount over standard 4" Dia. round outdoor j-box.
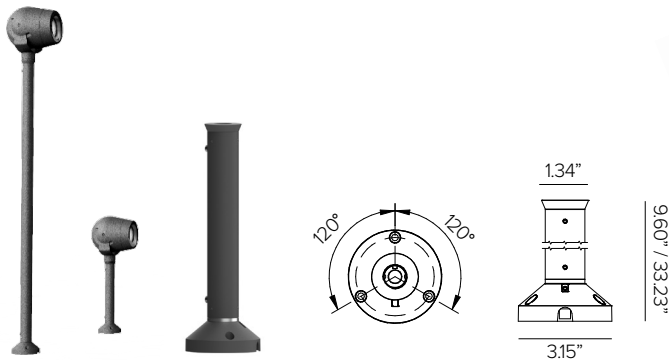
Part No.	**1BLTSMCVR** (*)

3.15"
1.38"

Surface mount base, powder coated stainless steel. For surface wiring applications.

Part No.	**A040** (*)

1.97"
9.13"

Ground spike for landscape installation. Powder coated stainless steel.

Part No.	**1E3785** (*)

120° 120°
1.34"
9.60" / 33.23"
3.15"

Surface floor post. Powder coated stainless steel post.

Length	9"L	33"L
Part No.	**1USA047** (*)	**1USA048** (*)

1.88"
24.00"
5.82"
Stabilizer
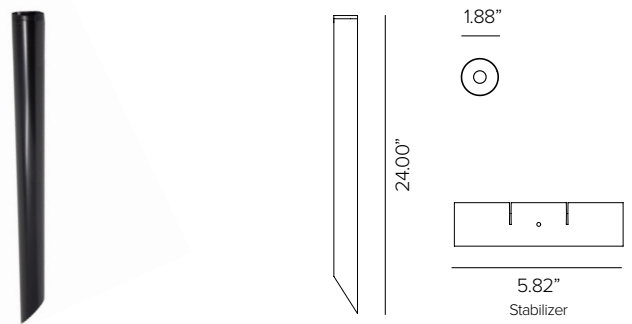
Permapost. Aluminum with 1/2" NPT and 1ea stabilizer.
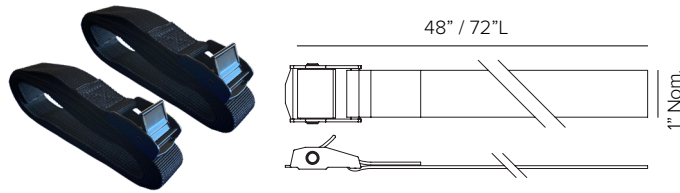
Finish	● Deep Black
Part No.	**PRMP24BK**

● Ferrite Dark Grey (**FE**)*   ● Heritage Brown (**HB**)*   ● Bronze (**BZ**)*   ○ White (**WT**)*   ● Black (**BT**)*   ● Sandstone Grey (**SG**)*

*Add suffix to end of number to identify finish (EX. A045<u>HB</u>)

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## 7 – TREE MOUNTING INSTALLATION (OPTIONAL)

48" / 72"L

1" Nom.

Tree strap. Durable marine grade polypropylene webbing flexible strap with stainless steel cam buckle. **Maximum of 4 fixture brackets per double strap.**
(REQUIRED FOR TREE MOUNTING)

Finish	● Black	● Coyote Brown	● Silver Grey	● Graphite Grey
Length	48"			
Part No.	TTS01D48BK	TTS01D48BR	TTS01D48SG	TTS01D48GG
Length	72"			
Part No.	TTS01D72BK	TTS01D72BR	TTS01D72SG	TTS01D72GG

3.31" 1.54" 5.00" 1.9"

Fixture bracket comprised of powder coated stainless steel for use with tree strap.
Maximum of 4 fixture brackets per double strap.
(REQUIRED FOR TREE MOUNTING)

Finish	● Black	● Bronze	● Sandstone Grey	● Ferrite Dark Grey
Part No.	TTB01DBK	TTB01DBZ	TTB01DSG	TTB01DFG

1.63" H 3.25" 5.00" 1.9" 3.82" 1.54" 1.9"
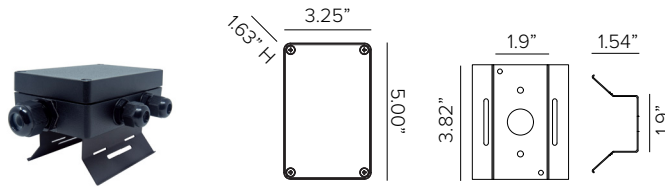
Connection box. Painted aluminum UL listed j-box with single input and 4ea max outputs for lateral cable exit. Provided with 1ea 1/2" cable gland and 4ea 3/8" cable gland, 3ea plugs provided along with mounting bracket, **tree strap sold separately**. Used to connect single 24V DC low voltage cable from remote driver to connection box. For single strap configuration, use 1ea connection box. For double strap configuration, use 2ea connection boxes. **(OPTIONAL)**

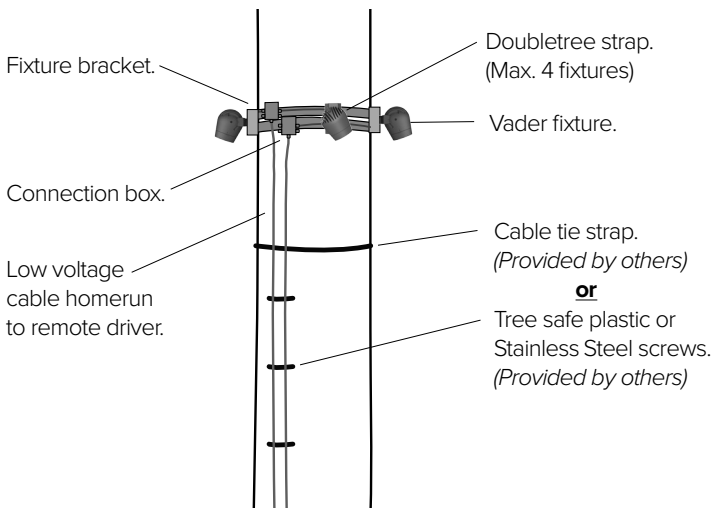| Finish	● Black	● Bronze	● Sandstone Grey	● Ferrite Dark Grey
Part No.	TTC02SBK	TTC02SBZ	TTC02SSG	TTC02SFG

Expands Ø 0.38" to 1"

Mesh wire protection cable sleeve, available per foot. Comprised of braided polyethylene terepthalate (PET) mono-filament webbing resistant to chemical degradation, UV radiation, and abrasion. **To be used in installations where multiple cables can be combined into a 'single' cable look and/or to conceal the cable to match the finish of the surface. (OPTIONAL)**

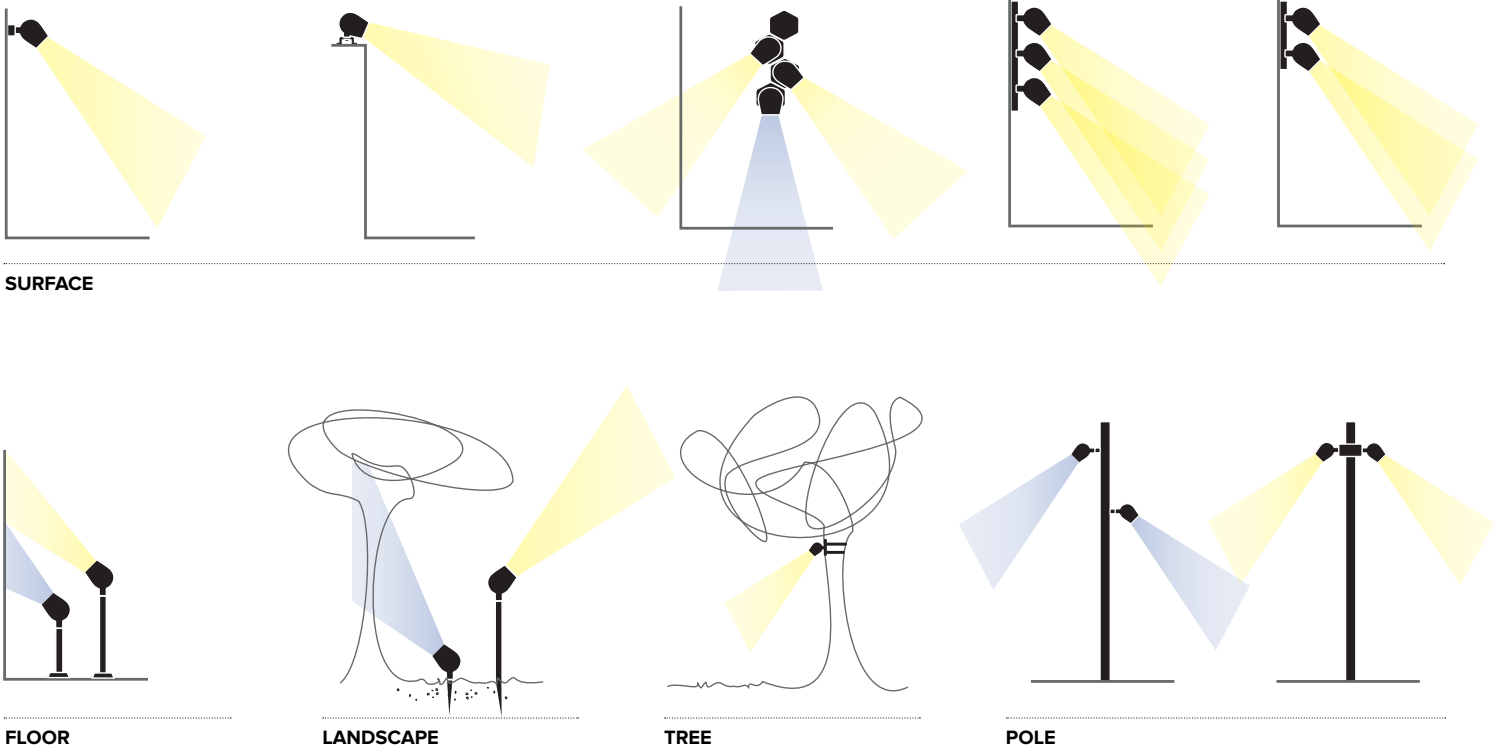| Finish	● Black	● Coyote Brown	● Silver Grey	● Graphite Grey
Part No.	TTMW01BK	TTMW01BR	TTMW01SG	TTMW01GG

TREE WIRING CONFIGURATION

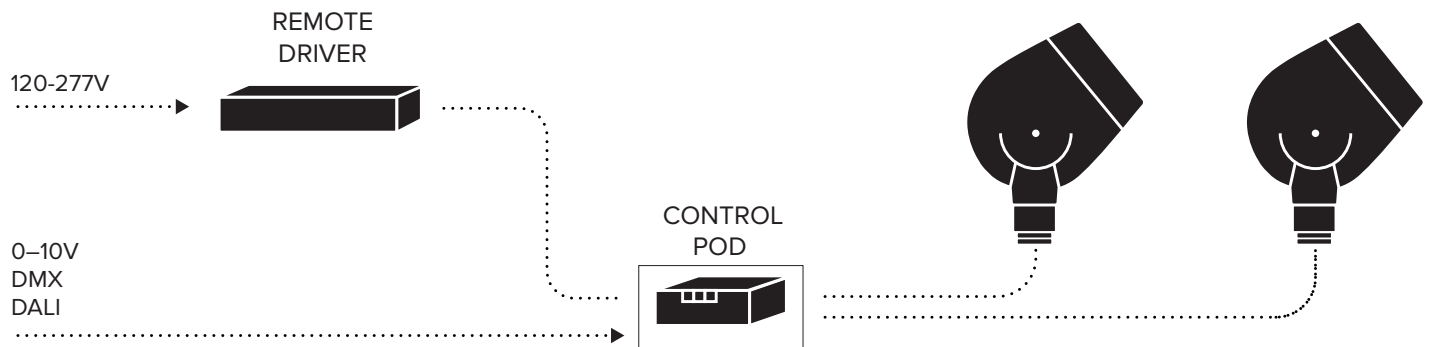*Note: Suggested to adjust the strap every 6 months in order to prevent tree damage.*

Fixture bracket.

Doubletree strap.
(Max. 4 fixtures)

Vader fixture.

Connection box.

Cable tie strap.
(Provided by others)
or
Tree safe plastic or
Stainless Steel screws.
(Provided by others)

Low voltage
cable homerun
to remote driver.

INSTALLATION EXAMPLES

SURFACE

FLOOR **LANDSCAPE** **TREE** **POLE**

INSTALLATION DIAGRAM

REMOTE
DRIVER

120-277V

0—10V
DMX
DALI

CONTROL
POD

Can be mounted inside installation
accessories or 4"x4" Junction Box, etc.

0-10V 1ea two channel control zone for up to 30 fixtures.
DALI up to 64ea independently controlled fixtures.
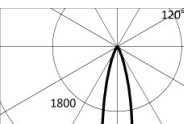*DMX two channel up to 64ea independently controlled fixtures.*

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PHOTOMETRY

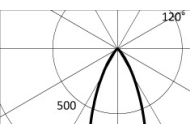*IES FILES WATTAGE AND EFFICIENCY CALCULATIONS BASED WITH SUPPLIED DRIVER*
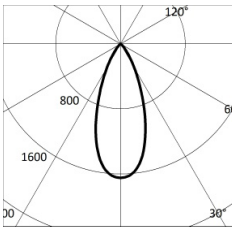
ZOOM 22°

1800K		H(m)	D(m)	Emax(lx)
Ra90			22°	
Fixture Power	15W	1	0.39	3038
Source Flux	1032lm	2	0.78	760
Fixture Flux	656lm	3	1.18	338
Efficacy	44lm/W	4	1.57	190
Imax	3038cd	5	1.96	122

A7865   Imax=2946cd/klm

2900K		H(m)	D(m)	Emax(lx)
Ra90			22°	
Fixture Power	15W	1	0.39	4237
Source Flux	1427lm	2	0.78	1059
Fixture Flux	914lm	3	1.18	471
Efficacy	61lm/W	4	1.57	265
Imax	4237cd	5	1.96	169

A7866   Imax=2970cd/klm

4000K		H(m)	D(m)	Emax(lx)
Ra90			22°	
Fixture Power	15W	1	0.39	4991
Source Flux	1675lm	2	0.78	1248
Fixture Flux	1077lm	3	1.18	555
Efficacy	72lm/W	4	1.57	312
Imax	4991cd	5	1.96	200

A7864   Imax=2980cd/klm

ZOOM 42°

1800K		H(m)	D(m)	Emax(lx)
Ra90			41°	
Fixture Power	15W	1	0.74	1176
Source Flux	1032lm	2	1.49	294
Fixture Flux	650lm	3	2.23	131
Efficacy	43lm/W	4	2.97	73
Imax	1176cd	5	3.72	47

A7868   Imax=1140cd/klm

2900K		H(m)	D(m)	Emax(lx)
Ra90			41°	
Fixture Power	15W	1	0.74	1644
Source Flux	1427lm	2	1.49	411
Fixture Flux	909lm	3	2.23	183
Efficacy	61lm/W	4	2.97	103
Imax	1644cd	5	3.72	66

A7869   Imax=1153cd/klm

4000K		H(m)	D(m)	Emax(lx)
Ra90			41°	
Fixture Power	15W	1	0.74	1928
Source Flux	1675lm	2	1.49	482
Fixture Flux	1065lm	3	2.23	214
Efficacy	71lm/W	4	2.97	120
Imax	1928cd	5	3.72	77

A7867   Imax=1151cd/klm