# Targetti

# VADER

## All-in-One Extremely Adjustable Flood Light Projector



VADER shown in Ferrite Dark Grey finish.



5.03"  5.98"  6.89"

Marine [A]  RoHS3 COMPLIANT  IP66  cULus
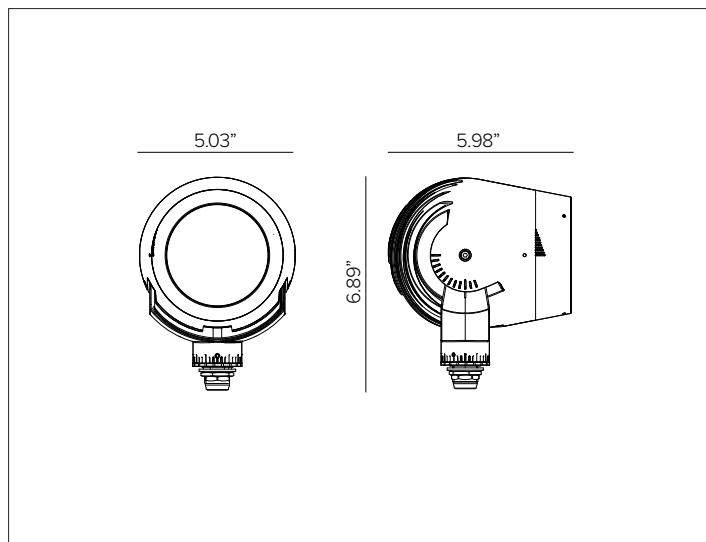
### ⬭ CONCEPT

VADER is an All-in-One adjustable flood light projector 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. Marine Grade cataphoresis [A] available as optional. |
| 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 |
| Protection | IP66 |
| Impact | IK08 |

### ⬭ CERTIFICATIONS

cULus Wet Location Listed.
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.

### ⬭ ELECTRICAL CHARACTERISTICS

| Power Supply | Remote Class 2 120V-277V AC power supply required. |
|---|---|
| Wattage | 14W |
| Voltage | 48V DC |
| Control | Remote Three-in-One Smart Control Pod. 0-10V 1% Dim DMX / DALI 0% Dim |

### ⬭ SOURCE

High-Efficiency LED COB.

| TM30 | CCT (Nominal) | CRI | SDCM |
|---|---|---|---|
| | 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°.

| Beam | ZOOM 22° – 41° | | |
|---|---|---|---|
| Delivered Lumens | 1800K | 656Lm – 650Lm | |
| | 2900K | 914Lm – 909Lm | |
| | 4000K | 1114Lm – 1065Lm | |
| Efficacy | 80Lm/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.

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## SPECIFICATION INFORMATION

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

*Ex: VADERFE / A035 / PS052*

REQUIRED ———— OPTIONAL

| 1 - PRODUCT CODE | 2 - FINISH | 3 - CONTROL | 4 - POWER SUPPLY |
|---|---|---|---|
| **VADER** — VADER Floodlight Projector with Zoom Optic and Tunable White Capability | **FE** — Ferrite Dark Grey<br>**HB** — Heritage Brown<br>**BZ** — Bronze<br>**WT** — White<br>**BT** — Black<br>**SG** — Sandstone Grey<br>**RAL** — Custom RAL | Control Pod<br>*See section for details* | Power Supply<br>*See section for details* |

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

## KEY FEATURES

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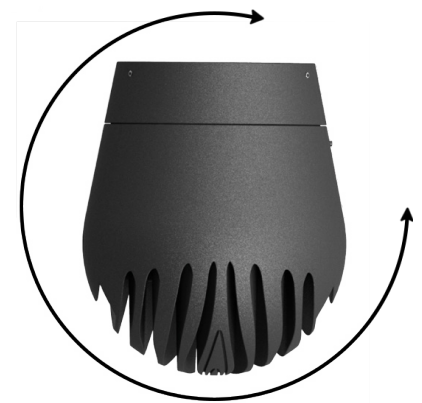


**TILT**
*Tilt Rotation on the vertical axis from -20° to +90° with aim lock set screw.*
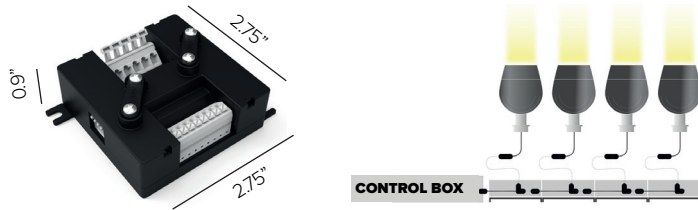


**ROTATION**
*The luminaire can be easily rotated 355° in the horizontal plane with degree indicators every 15°.*

## 3 – CONTROL (REQUIRED)



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 control up to 64ea.**

*Part No.* **A035**

## 4 - 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

| Fixture Wattage | Driver Wattage | | | | |
|---|---|---|---|---|---|
| | *40W* | *60W* | *96W* | *2X96W* | *3X96W* |
| *14W* | **2** | **3** | **6** | **6+6** | **6+6+6** |

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## 5 – OPTICAL ACCESSORIES (OPTIONAL)
*MAXIMUM OF ONE ACCESSORY PER FIXTURE.*



VADER 'Blade of Light' linear spread lens.

*Part No.* **A039** (*)



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

*Part No.* **A038** (*)



VADER symmetric snoot. Powder coated stainless steel.

*Part No.* **A036** (*)



VADER asymmetric snoot. Powder coated stainless steel.

*Part No.* **A037** (*)

## 6 – INSTALLATION ACCESSORIES (OPTIONAL)
*MAXIMUM OF ONE ACCESSORY PER FIXTURE*



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** (*)



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

*Part No.* **A043** (*)



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

*Part No.* **A040** (*)



Round surface mount plate, powder coated stainless steel. For surface wiring applications. To be used in addition to A040.

*Part No.* **A041** (*)

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

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

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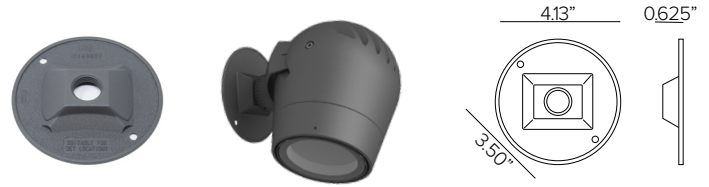## 6 – INSTALLATION ACCESSORIES (OPTIONAL)

*MAXIMUM OF ONE ACCESSORY PER FIXTURE*



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** (*) |
|----------|-------------------|



Double surface base. Powder coated stainless steel.

| Part No. | **A045** (*) |
|----------|--------------|



Triple surface base. Powder coated stainless steel.

| Part No. | **A046** (*) |
|----------|--------------|



Ground anchor post with stabilizer. Powder coated stainless steel.

| Length | 9"L | 33"L |
|--------|-----|------|
| Part No. | **1USA050** (*) | **1USA051** (*) |
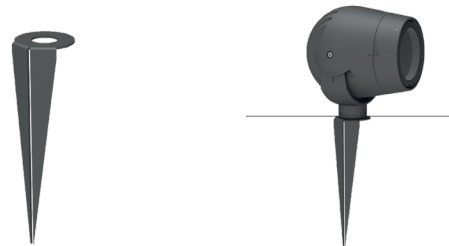


Ground spike for landscape installation. Powder coated stainless steel.

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



Surface peg bracket. Powder coated stainless steel.

| Length | 9"L | 33"L |
|--------|-----|------|
| Part No. | **A047** (*) | **A048** (*) |

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

***Add suffix to end of number to identify finish (EX. A045HB)**

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## 6 – POLE MOUNT INSTALLATION (OPTIONAL)



Mounting bracket for event pole for up to 4ea fixtures. Event pole sold separately. Powder coated stainless steel.

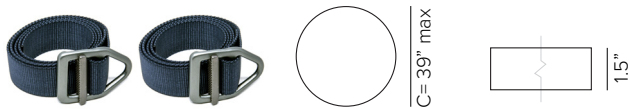| Part No. | **1USP02BKTFEQ** (*) |
|---|---|



Pole bracket, 1ea. 2.5" Dia. pole provided by others. 3.6" Dia. pole compatible with Targetti event pole. Powder coated stainless steel.

| Pole Dia. | 2.5"Dia (60mm) | 3.6"Dia (90mm) |
|---|---|---|
| Part No. | **A052** (*) | **A054** (*) |

## 6 – TREE MOUNTING INSTALLATION (OPTIONAL)



Durable 1.5 inch wide Nylon webbing Strap is flexible with High Strength Aircraft Aluminum V-ring Buckle in Gunmetal finish and lock in loop to prevent slipping. **Strap is made to coordinate with up to 3 fixtures and 1 wiring connection boxes. Strap fits trees 39" max circumference or smaller. (REQUIRED)**

| Finish | ⬤ Ferrite Dark Grey | ⬤ Bronze | ⬤ Graphite Grey |
|---|---|---|---|
| Part No. | **TTS0106** | **TTS0104** | **TTS0105** |



Fixture bracket comprised of powder coated stainless steel for use with tree strap. **Maximum of 3 brackets can be per double strap. (REQUIRED)**

| Part No. | **A049** |
|---|---|



Tree Strap Connection Box. Painted aluminum UL listed 9in³ j-box with 3ea 3/8" cable glands and 1ea 1/2" cable gland. Mounting bracket for tree strap included. Used to connect multiple 24V DC low voltage cables for one continuous cable connection down the tree to remote driver, additional cable provided by others. **Can be used for up to 3 fixture connections per tree strap. (OPTIONAL)**

| Finish | ⬤ Ferrite Dark Grey | ⬤ Bronze |
|---|---|---|
| Part No. | **TTCB0103FG** | **TTB0103BZ** |


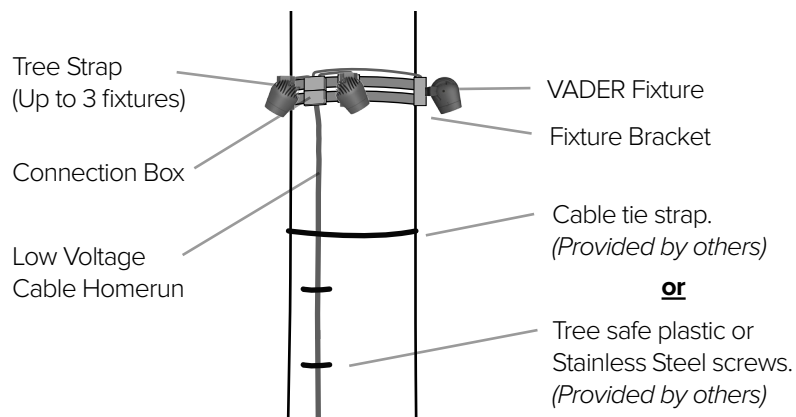
Mesh wire protection cover sleeve comprised of braided polyethylene terepthalate (PET) monofilament webbing resistant to chemical degradation, UV radiation and abrasion. 3/8" SJO Cord Sleeve, available per foot. **(OPTIONAL)**

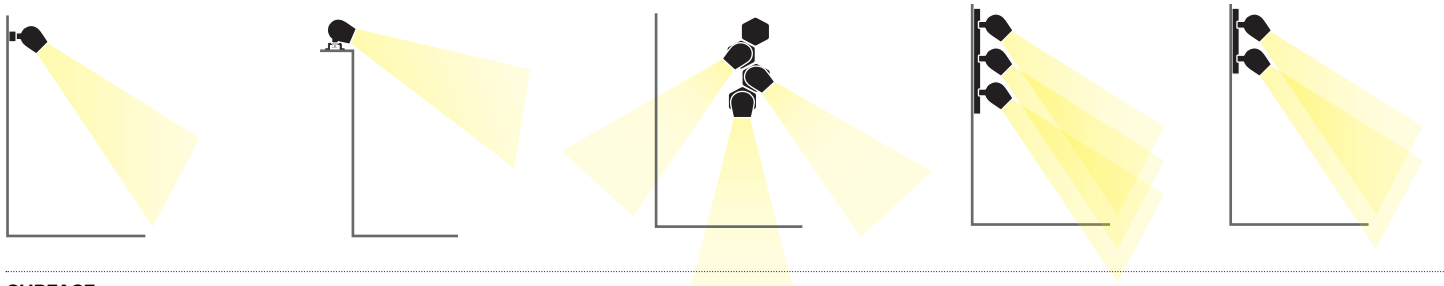| Finish | ⬤ Carbon Grey | ⬤ Brown | ⬤ Forest Green |
|---|---|---|---|
| Part No. | **TTSJS01** | **TTSJS102** | **TTSJS103** |

## TREE STRAP INSTALLATION



Tree Strap
(Up to 3 fixtures)

VADER Fixture

Fixture Bracket

Connection Box

Low Voltage
Cable Homerun

Cable tie strap.
*(Provided by others)*

**or**

Tree safe plastic or
Stainless Steel screws.
*(Provided by others)*

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## INSTALLATION EXAMPLES

**SURFACE**
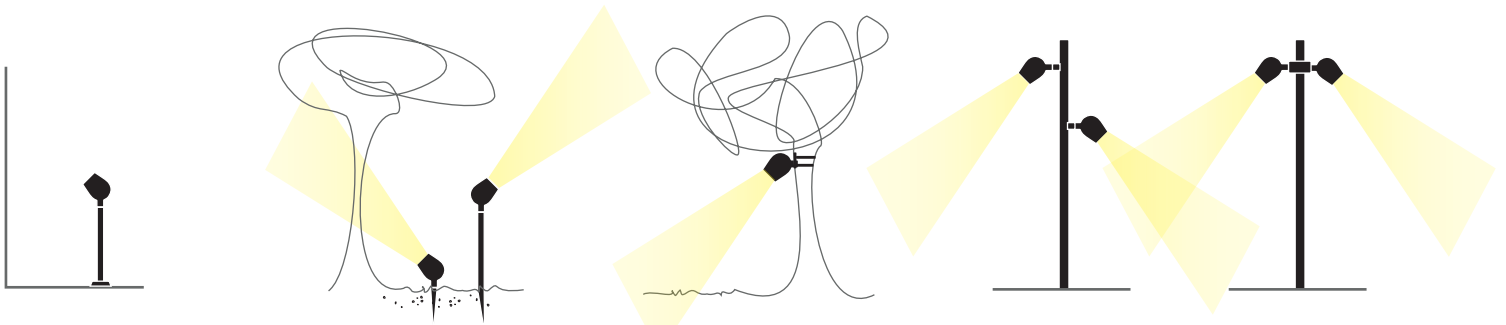
**FLOOR**

**LANDSCAPE**

**TREE**

**POLE**

## INSTALLATION DIAGRAM

REMOTE
DRIVER

120-277V

0–10V
DMX
DALI

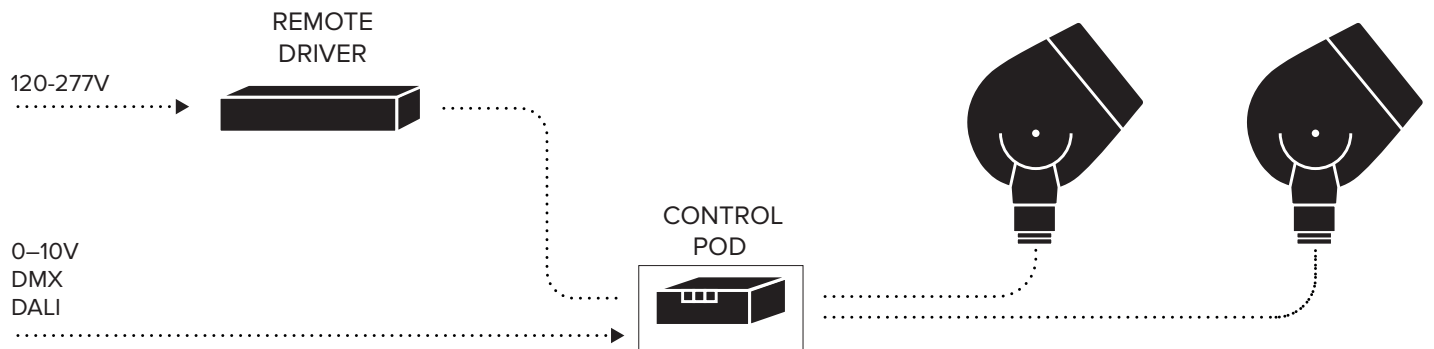CONTROL
POD

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 control up to 64ea.*

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## PHOTOMETRY

### ZOOM 22°

| 1800K | | H(m) | D(m) | Emax(lx) |
|---|---|---|---|---|
| Ra90 | | | 22° | |
| Fixture Power | 14W | 1 | 0.39 | 3038 |
| Source Flux | 1032lm | 2 | 0.78 | 760 |
| Fixture Flux | 656lm | 3 | 1.18 | 338 |
| Efficacy | 48lm/W | 4 | 1.57 | 190 |
| A7865 Imax=2946cd/klm Imax | 3038cd | 5 | 1.96 | 122 |

| 2900K | | H(m) | D(m) | Emax(lx) |
|---|---|---|---|---|
| Ra90 | | | 22° | |
| Fixture Power | 13W | 1 | 0.39 | 4237 |
| Source Flux | 1427lm | 2 | 0.78 | 1059 |
| Fixture Flux | 914lm | 3 | 1.18 | 471 |
| Efficacy | 70lm/W | 4 | 1.57 | 265 |
| A7866 Imax=2970cd/klm Imax | 4237cd | 5 | 1.96 | 169 |

| 4000K | | H(m) | D(m) | Emax(lx) |
|---|---|---|---|---|
| Ra90 | | | 22° | |
| Fixture Power | 14W | 1 | 0.39 | 4991 |
| Source Flux | 1675lm | 2 | 0.78 | 1248 |
| Fixture Flux | 1077lm | 3 | 1.18 | 555 |
| Efficacy | 78lm/W | 4 | 1.57 | 312 |
| A7864 Imax=2980cd/klm Imax | 4991cd | 5 | 1.96 | 200 |

### ZOOM 42°

| 1800K | | H(m) | D(m) | Emax(lx) |
|---|---|---|---|---|
| Ra90 | | | 41° | |
| Fixture Power | 14W | 1 | 0.74 | 1176 |
| Source Flux | 1032lm | 2 | 1.49 | 294 |
| Fixture Flux | 650lm | 3 | 2.23 | 131 |
| Efficacy | 48lm/W | 4 | 2.97 | 73 |
| A7868 Imax=1140cd/klm Imax | 1176cd | 5 | 3.72 | 47 |

| 2900K | | H(m) | D(m) | Emax(lx) |
|---|---|---|---|---|
| Ra90 | | | 41° | |
| Fixture Power | 13W | 1 | 0.74 | 1644 |
| Source Flux | 1427lm | 2 | 1.49 | 411 |
| Fixture Flux | 909lm | 3 | 2.23 | 183 |
| Efficacy | 69lm/W | 4 | 2.97 | 103 |
| A7869 Imax=1153cd/klm Imax | 1644cd | 5 | 3.72 | 66 |

| 4000K | | H(m) | D(m) | Emax(lx) |
|---|---|---|---|---|
| Ra90 | | | 41° | |
| Fixture Power | 14W | 1 | 0.74 | 1928 |
| Source Flux | 1675lm | 2 | 1.49 | 482 |
| Fixture Flux | 1065lm | 3 | 2.23 | 214 |
| Efficacy | 77lm/W | 4 | 2.97 | 120 |
| A7867 Imax=1151cd/klm Imax | 1928cd | 5 | 3.72 | 77 |