# Projectors

# DART

TARGETTI

# DART

**GENERAL INFO**
Professional adjustable projector
76x76 - 134x134 - 214x214

**LED**
Chip on board
Emitter for versions NSP Small e Medium
From 200lm to 8864lm
3000K – 4000K
Ra80
High efficiency RGBW LED multichip
From 114lm to 1364lm

**PRODUCT EFFICACY**
Up to 129lm/W

**OPTICS**
NSP – SP – FL – MWFL for all versions.
WFL – ASYM for versions Medium e Maxi
NARROW ASYM for versions Medium

**POWER SUPPLY**
Electronic – DALI
Casambi control system available using a dedicated accessory (only for DALI version products).

**MATERIAL**
Painted die-cast anodised aluminium body and painted stainless steel mounting bracket.

**ON DEMAND**
Easy Custom Colour
110-277Vac power supply
Cataphoresis treatment

A range of professional al projectors for outdoor architectural lighting, available in three different sizes-Small, Medium and Maxi; it has a compact and essential design that integrates into every architectural context.

Dart is extremely versatile thanks to the possibility to choose from different versions with different lumens and optics for accent lighting or uniform lighting of large surfaces. Also available with an asymmetrical optic. Dart Medium is also available in RGBW version.
On request it is possible to subject the product to “Cataphoresis” treatment making it suitable to be installed near the sea (up to 5 metres) or in “hostile” environments.

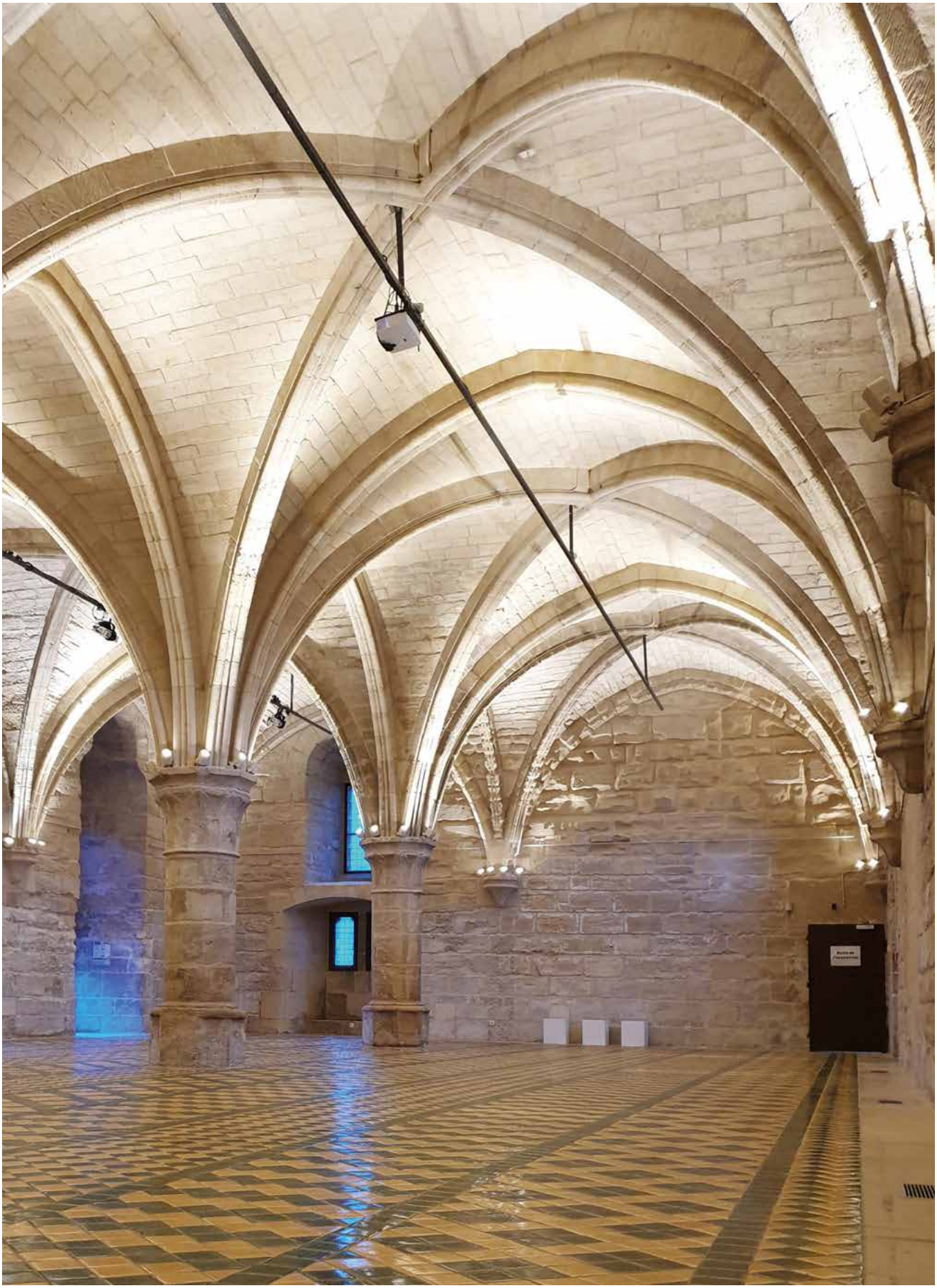
The entire range uses the “Waterblock Smart” technical solution that involves resin coating the connection cables limiting the risk of humidity  reaching the driver or the fixture.

| | | SMALL | MEDIUM | MEDIUM RGBW | MAXI |
|---|---|---|---|---|---|
| | | 76x76mm | 134x134mm | 134x134mm | 214x214mm |
| LED | Flux (lm) | 200-2164 | 1332-5082 | 114-1364 | 3546-8864 |
| | Power | 3W-15W | 16W-33W | 31W | 25W-63W |
| **OPTICS** | | | | | |
| NSP | Lens | • | • | | |
| | Indirect | | | | • |
| SP | Lens | • | | | |
| | Hybrid | | • | | • |
| | Reflector | | | • | |
| FL | Lens | • | | | |
| | Hybrid | | • | | • |
| | Reflector | | | • | |
| MWFL | Reflector | • | • | • | • |
| WFL | Reflector | | • | | • |
| ASYM | Reflector | | • | | • |
| NASYM | Reflector | | • | | |

**Abbaye de Maubuisson**
Saint-Ouen l'Aumone, France

**Architect** YCA Yves Chemineau Architecte
**Photographer** Bruno Singer

**Architect for the heritage**
Valari Architecte Aristide Bravaccio



Projectors

# Plus

### The large version in the Dart range

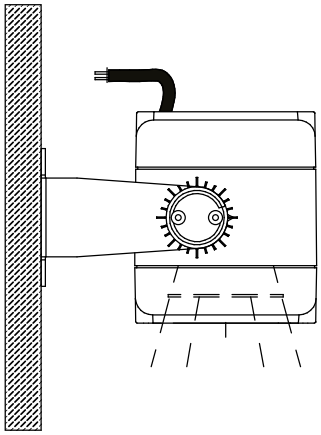
Is designed for architectural lighting of large surfaces and where it is essential to install fixtures at a distance.
Dart MAXI has the NSP optic to have clean, precise 8° beams. It works by reflection which means the lamp is hidden from sight and aimed towards the parabolic reflector which collimates the beam and emits a particularly defined, precise cone of light.

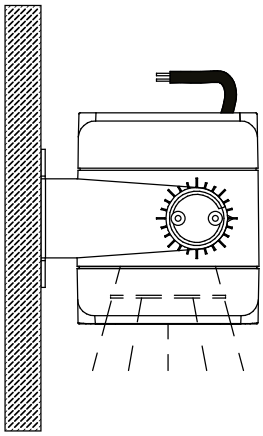
### Dart medium is available with two asymmetrical optics

A more open  version on the horizontal axis that makes it possible to widen the pitch between fixtures and a new version defined as Narrow Asymmetric that is more comfortable and controlled.

**The MINI version is available with a remote power**
Supply for installation in extremely confined spaces and with an integrated driver to simplify installation and accommodate cables on building facades.

**Off-centre rotation to zoom**
The body of the fixture towards and away from the support surface. Fitted with a graduated scale for precise aiming.





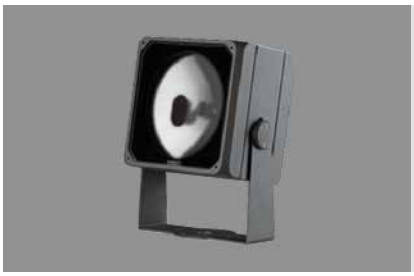
**Ponte di Rialto**
Venice, Italy

**Photographer** Ivan Rossi

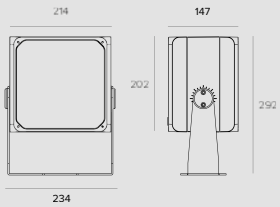
## Outdoor

Projectors

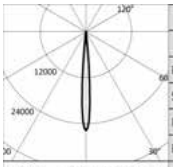
# DART



## Maxi



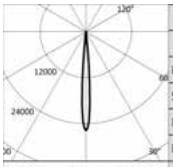

### LED / 25W / INDIRECT / NSP




| 3000K | | H(m) | D(m) | Emax(lx) |
|---|---|---|---|---|
| Ra80 | | | 8° | |
| Fixture Power | 27W | 1 | 0.15 | 91261 |
| Source Flux | 3546lm | 2 | 0.29 | 22815 |
| Fixture Flux | 2034lm | 3 | 0.44 | 10140 |
| Efficacy | 75lm/W | 4 | 0.58 | 5704 |
| TS1513 Imax=25736cd/klm | Imax | 91261cd | 5 | 0.73 | 3650 |

| Driver | Colour | 3000K | 4000K |
|---|---|---|---|
| EL. | | **1E3942EL** | **1E3943EL** |
| DALI | | **1E3942DA** | **1E3943DA** |

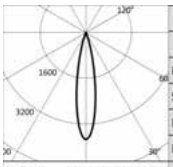
### LED / 33W / INDIRECT / NSP




| 3000K | | H(m) | D(m) | Emax(lx) |
|---|---|---|---|---|
| Ra80 | | | 8° | |
| Fixture Power | 36W | 1 | 0.15 | 109405 |
| Source Flux | 4251lm | 2 | 0.29 | 27351 |
| Fixture Flux | 2439lm | 3 | 0.44 | 12156 |
| Efficacy | 67lm/W | 4 | 0.58 | 6838 |
| TS1513 Imax=25736cd/klm | Imax | 109405cd | 5 | 0.73 | 4376 |

| Driver | Colour | 3000K | 4000K |
|---|---|---|---|
| EL. | | **1E3944EL** | **1E3945EL** |
| DALI | | **1E3944DA** | **1E3945DA** |

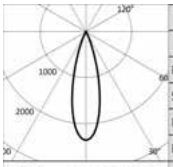
### LED / 50W / HYBRID / SP




| 3000K | | H(m) | D(m) | Emax(lx) |
|---|---|---|---|---|
| Ra80 | | | 20° | |
| Fixture Power | 54W | 1 | 0.35 | 27248 |
| Source Flux | 7302lm | 2 | 0.70 | 6812 |
| Fixture Flux | 3898lm | 3 | 1.05 | 3028 |
| Efficacy | 72lm/W | 4 | 1.40 | 1703 |
| TS1495 Imax=3732cd/klm | Imax | 27248cd | 5 | 1.75 | 1090 |

| Driver | Colour | 3000K | 4000K |
|---|---|---|---|
| EL. | | **1E3946EL** | **1E3947EL** |
| DALI | | **1E3946DA** | **1E3947DA** |

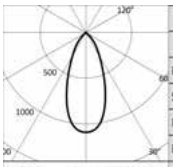
### LED / 50W / HYBRID / FL




| 3000K | | H(m) | D(m) | Emax(lx) |
|---|---|---|---|---|
| Ra80 | | | 28° | |
| Fixture Power | 54W | 1 | 0.50 | 17189 |
| Source Flux | 7302lm | 2 | 1.01 | 4297 |
| Fixture Flux | 4381lm | 3 | 1.51 | 1910 |
| Efficacy | 81lm/W | 4 | 2.02 | 1074 |
| TS1496 Imax=2354cd/klm | Imax | 17189cd | 5 | 2.52 | 688 |

| Driver | Colour | 3000K | 4000K |
|---|---|---|---|
| EL. | | **1E3948EL** | **1E3949EL** |
| DALI | | **1E3948DA** | **1E3949DA** |

### LED / 50W / REFLECTOR / MWFL

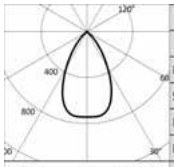



| 3000K | | H(m) | D(m) | Emax(lx) |
|---|---|---|---|---|
| Ra80 | | | 43° | |
| Fixture Power | 54W | 1 | 0.79 | 7950 |
| Source Flux | 7302lm | 2 | 1.58 | 1987 |
| Fixture Flux | 5282lm | 3 | 2.37 | 883 |
| Efficacy | 98lm/W | 4 | 3.15 | 497 |
| TS1497 Imax=1089cd/klm | Imax | 7950cd | 5 | 3.94 | 318 |

| Driver | Colour | 3000K | 4000K |
|---|---|---|---|
| EL. | | **1E3950EL** | **1E3951EL** |
| DALI | | **1E3950DA** | **1E3951DA** |

# DART

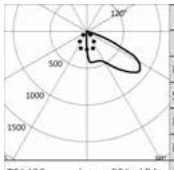
## LED / 50W / REFLECTOR / WFL




| 3000K | | H(m) | D(m) | Emax(lx) |
|---|---|---|---|---|
| Ra80 | | | 59° | |
| Fixture Power | 54W | 1 | 1.14 | 5413 |
| Source Flux | 7302lm | 2 | 2.28 | 1353 |
| Fixture Flux | 5290lm | 3 | 3.42 | 601 |
| Efficacy | 98lm/W | 4 | 4.56 | 338 |
| TS1498 Imax=741cd/klm | Imax 5414cd | 5 | 5.70 | 217 |

| Driver | Colour | 3000K | 4000K |
|---|---|---|---|
| EL. | ● | **1E3952EL** | **1E3953EL** |
| DALI | ● | **1E3952DA** | **1E3953DA** |

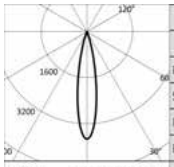
## LED / 50W / ASYM




| 3000K | | H(m) | D1(m) | D2(m) | Emax(lx) |
|---|---|---|---|---|---|
| Ra80 | | | 40° | 70° | |
| Fixture Power | 54W | 1 | 1.78 | 2.34 | 2635 |
| Source Flux | 7302lm | 2 | 3.57 | 4.68 | 659 |
| Fixture Flux | 6255lm | 3 | 5.35 | 7.01 | 293 |
| Efficacy | 116lm/W | 4 | 7.13 | 9.35 | 165 |
| TS1499 Imax=891cd/klm | Imax 6509cd | 5 | 8.91 | 11.69 | 105 |

| Driver | Colour | 3000K | 4000K |
|---|---|---|---|
| EL. | ● | **1E3954EL** | **1E3955EL** |
| DALI | ● | **1E3954DA** | **1E3955DA** |

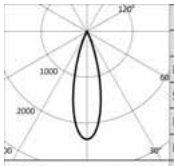
## LED / 63W / HYBRID / SP




| 3000K | | H(m) | D(m) | Emax(lx) |
|---|---|---|---|---|
| Ra80 | | | 20° | |
| Fixture Power | 69W | 1 | 0.35 | 32304 |
| Source Flux | 8657lm | 2 | 0.70 | 8076 |
| Fixture Flux | 4621lm | 3 | 1.05 | 3589 |
| Efficacy | 67lm/W | 4 | 1.40 | 2019 |
| TS1495 Imax=3732cd/klm | Imax 32304cd | 5 | 1.75 | 1292 |

| Driver | Colour | 3000K | 4000K |
|---|---|---|---|
| EL. | ● | **1E3956EL** | **1E3957EL** |
| DALI | ● | **1E3956DA** | **1E3957DA** |

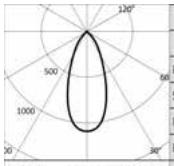
## LED / 63W / HYBRID / FL




| 3000K | | H(m) | D(m) | Emax(lx) |
|---|---|---|---|---|
| Ra80 | | | 28° | |
| Fixture Power | 69W | 1 | 0.50 | 20378 |
| Source Flux | 8657lm | 2 | 1.01 | 5095 |
| Fixture Flux | 5194lm | 3 | 1.51 | 2264 |
| Efficacy | 75lm/W | 4 | 2.02 | 1274 |
| TS1496 Imax=2354cd/klm | Imax 20378cd | 5 | 2.52 | 815 |

| Driver | Colour | 3000K | 4000K |
|---|---|---|---|
| EL. | ● | **1E3958EL** | **1E3959EL** |
| DALI | ● | **1E3958DA** | **1E3959DA** |

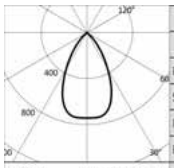
## LED / 63W / REFLECTOR / MWFL




| 3000K | | H(m) | D(m) | Emax(lx) |
|---|---|---|---|---|
| Ra80 | | | 43° | |
| Fixture Power | 69W | 1 | 0.79 | 9425 |
| Source Flux | 8657lm | 2 | 1.58 | 2356 |
| Fixture Flux | 6262lm | 3 | 2.37 | 1047 |
| Efficacy | 91lm/W | 4 | 3.15 | 589 |
| TS1497 Imax=1089cd/klm | Imax 9425cd | 5 | 3.94 | 377 |

| Driver | Colour | 3000K | 4000K |
|---|---|---|---|
| EL. | ● | **1E3960EL** | **1E3961EL** |
| DALI | ● | **1E3960DA** | **1E3961DA** |

## LED / 63W / REFLECTOR / WFL

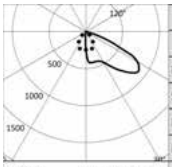



| 3000K | | H(m) | D(m) | Emax(lx) |
|---|---|---|---|---|
| Ra80 | | | 59° | |
| Fixture Power | 69W | 1 | 1.14 | 6418 |
| Source Flux | 8657lm | 2 | 2.28 | 1604 |
| Fixture Flux | 6271lm | 3 | 3.42 | 713 |
| Efficacy | 91lm/W | 4 | 4.56 | 401 |
| TS1498 Imax=741cd/klm | Imax 6419cd | 5 | 5.70 | 257 |

| Driver | Colour | 3000K | 4000K |
|---|---|---|---|
| EL. | ● | **1E3962EL** | **1E3963EL** |
| DALI | ● | **1E3962DA** | **1E3963DA** |

# DART

## LED / 63W / ASYM




| 3000K | | H(m) | D1(m) | D2(m) | Emax(lx) |
|---|---|---|---|---|---|
| Ra80 | | | 40° | 70° | |
| Fixture Power | 69W | 1 | 1.78 | 2.34 | 3124 |
| Source Flux | 8657lm | 2 | 3.57 | 4.68 | 781 |
| Fixture Flux | 7416lm | 3 | 5.35 | 7.01 | 347 |
| Efficacy | 108lm/W | 4 | 7.13 | 9.35 | 195 |
| TS1499 Imax=891cd/klm | Imax 7717cd | 5 | 8.91 | 11.69 | 125 |

| Driver | Colour | 3000K | 4000K |
|---|---|---|---|
| EL. | | **1E3964EL** | **1E3965EL** |
| DALI | | **1E3964DA** | **1E3965DA** |

## Note

1 (1E2769) connector necessary for electronic and DALI versions.

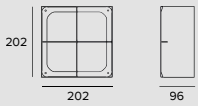
# Accessories

### Filter

| Code |
|---|
| **1E3094** |

Blade of light filter.
PMMA holographic filter for a blade of light effect.
To be completed with a dedicated holder ring.
Diameter 168mm.

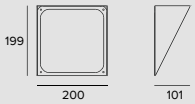
### Grid




| Code |
|---|
| **1E3096** |

Anti-glare louver.
The central elements may be removed to obtain two different levels of glare control.
Powder coated stainless steel.
Ferrite/matte black.

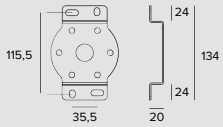
### Screen




| Code |
|---|
| **1E3095** |

Asymmetric screen.
Powder coated stainless steel.
Ferrite.

### Mounting System



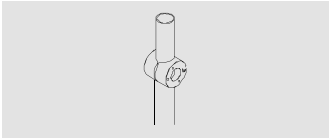

| Code |
|---|
| **1E3026** |

Plate for fixture rotation.
Powder coated stainless steel.
Ferrite.

| Dimensions ØxH | Colour | Code |
|---|---|---|
| 96x182 | | **1E3028** |
| 150x352 | | **1E3188** |

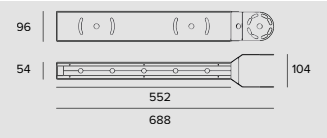
Earthspike.
Powder coated stainless steel.

# DART



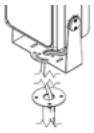
| Code |
|---|
| **1E2825** |

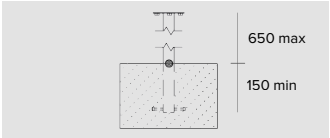
Pole bracket.
Anodised and powder coated aluminium.
Pole Ø 60mm (+/-2mm).




| Code |
|---|
| **1E3097** |

Pole multiple mounting system.
Powder coated stainless steel.
To be completed with 1E2825.
Max 4 projectors.

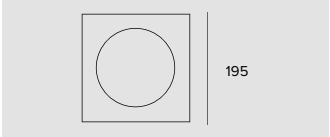





| Code |
|---|
| **1E3187** |

Pole with base.
Powder coated stainless steel.

## Holder Ring




| Code |
|---|
| **1E3093** |

Holder ring.
Powder coated stainless steel.
AxB 195x195mm.

## Tool

| Code |
|---|
| **1E3098** |

Laser pointing system.
Installed by friction on the projector's body.
Powder coated stainless steel.
Laser included.

## Connector

| Code |
|---|
| **1E2769** |

Linear connection box IP66/IP68.
5 poles max. wire section 1.5mm$^2$.
Cable diameter range from 7 to 12mm.

| Code |
|---|
| **1E2494** |

Multiple connection box IP68.
1 IN - 3 OUT 4 poles max. wire section 2.5mm$^2$.
Cable diameter range from 6 to 12mm.

## Control systems

| Code |
|---|
| **1E3048** |

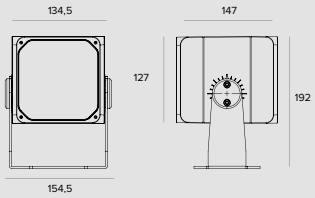
A IP67 Module for individual control of external devices equipped with DALI drivers.
The module needs to be positioned in order to receive radio signals.
The distance to the lighting fixtures can reach up to 50m.
Wireless control via the Casambi application.
LxHxP=56.5x22.3x35.8mm.

| Code |
|---|
| **1E3049** |

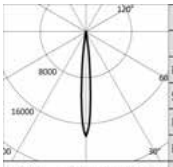
IP67 Extender for wireless control of DALI fixtures.
It generates a local DALI bus with the capacity to drive up to 64 fixtures.
Can control DALI fixtures in outdoor applications via the Casambi application.
LxHxP=150x40x148mm.

# DART

## Medium



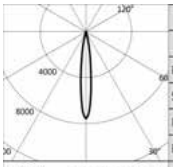

### LED / 16W / LENS / NSP




| 3000K | | H(m) | D(m) | Emax(lx) |
|---|---|---|---|---|
| Ra80 | | | 10° | |
| Fixture Power | 19W | 1 | 0.17 | 24179 |
| Source Flux | 1332lm | 2 | 0.34 | 6045 |
| Fixture Flux | 1008lm | 3 | 0.51 | 2687 |
| Efficacy | 53lm/W | 4 | 0.68 | 1511 |
| TS1512 Imax=18153cd/klm | Imax 24179cd | 5 | 0.86 | 967 |

| Driver | Colour | 3000K | 4000K |
|---|---|---|---|
| EL. | | **1E3928EL** | **1E3929EL** |
| DALI | | **1E3928DA** | **1E3929DA** |

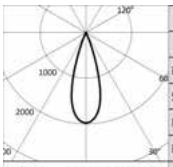
### LED / 33W / HYBRID / SP




| 3000K | | H(m) | D(m) | Emax(lx) |
|---|---|---|---|---|
| Ra80 | | | 14° | |
| Fixture Power | 36W | 1 | 0.24 | 32755 |
| Source Flux | 4336lm | 2 | 0.47 | 8189 |
| Fixture Flux | 2560lm | 3 | 0.71 | 3639 |
| Efficacy | 71lm/W | 4 | 0.95 | 2047 |
| TS1500 Imax=7554cd/klm | Imax 32755cd | 5 | 1.18 | 1310 |

| Driver | Colour | 3000K | 4000K |
|---|---|---|---|
| EL. | | **1E3930EL** | **1E3931EL** |
| DALI | | **1E3930DA** | **1E3931DA** |

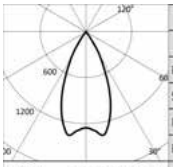
### LED / 33W / HYBRID / FL




| 3000K | | H(m) | D(m) | Emax(lx) |
|---|---|---|---|---|
| Ra80 | | | 32° | |
| Fixture Power | 36W | 1 | 0.58 | 8554 |
| Source Flux | 4336lm | 2 | 1.16 | 2139 |
| Fixture Flux | 2403lm | 3 | 1.74 | 950 |
| Efficacy | 66lm/W | 4 | 2.33 | 535 |
| TS1501 Imax=1973cd/klm | Imax 8554cd | 5 | 2.91 | 342 |

| Driver | Colour | 3000K | 4000K |
|---|---|---|---|
| EL. | | **1E3932EL** | **1E3933EL** |
| DALI | | **1E3932DA** | **1E3933DA** |

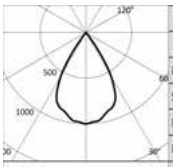
### LED / 31W / REFLECTOR / MWFL




| 3000K | | H(m) | D(m) | Emax(lx) |
|---|---|---|---|---|
| Ra80 | | | 48° | |
| Fixture Power | 33W | 1 | 0.89 | 6540 |
| Source Flux | 4963lm | 2 | 1.78 | 1635 |
| Fixture Flux | 4145lm | 3 | 2.68 | 727 |
| Efficacy | 125lm/W | 4 | 3.57 | 409 |
| TS1502 Imax=1366cd/klm | Imax 6778cd | 5 | 4.46 | 262 |

| Driver | Colour | 3000K | 4000K |
|---|---|---|---|
| EL. | | **1E3934EL** | **1E3935EL** |
| DALI | | **1E3934DA** | **1E3935DA** |

### LED / 31W / REFLECTOR / WFL

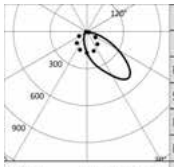



| 3000K | | H(m) | D(m) | Emax(lx) |
|---|---|---|---|---|
| Ra80 | | | 62° | |
| Fixture Power | 33W | 1 | 1.20 | 4948 |
| Source Flux | 4963lm | 2 | 2.40 | 1237 |
| Fixture Flux | 4169lm | 3 | 3.60 | 550 |
| Efficacy | 126lm/W | 4 | 4.80 | 309 |
| TS1503 Imax=997cd/klm | Imax 4948cd | 5 | 5.99 | 198 |

| Driver | Colour | 3000K | 4000K |
|---|---|---|---|
| EL. | | **1E3936EL** | **1E3937EL** |
| DALI | | **1E3936DA** | **1E3937DA** |

# DART

## LED / 31W / ASYM

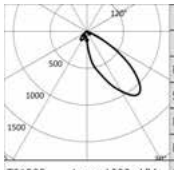



| 3000K | | H(m) | D1(m) | D2(m) | Emax(lx) |
|---|---|---|---|---|---|
| Ra80 | | | 51° | 83° | |
| Fixture Power | 33W | 1 | 1.72 | 2.39 | 1328 |
| Source Flux | 4963lm | 2 | 3.44 | 4.78 | 332 |
| Fixture Flux | 3526lm | 3 | 5.16 | 7.16 | 148 |
| Efficacy | 106lm/W | 4 | 6.88 | 9.55 | 83 |
| Imax | 2503cd | 5 | 8.60 | 11.94 | 53 |

TS1504 Imax=504cd/klm

| Driver | Colour | 3000K | 4000K |
|---|---|---|---|
| EL. | ● | **1E3938EL** | **1E3939EL** |
| DALI | ● | **1E3938DA** | **1E3939DA** |

## LED / 31W / NARROW ASYM




| 3000K | | H(m) | D1(m) | D2(m) | Emax(lx) |
|---|---|---|---|---|---|
| Ra80 | | | 41° | 52° | |
| Fixture Power | 33W | 1 | 1.20 | 1.26 | 3026 |
| Source Flux | 4963lm | 2 | 2.41 | 2.52 | 756 |
| Fixture Flux | 3845lm | 3 | 3.61 | 3.78 | 336 |
| Efficacy | 116lm/W | 4 | 4.81 | 5.04 | 189 |
| Imax | 5449cd | 5 | 6.02 | 6.29 | 121 |

TS1505 Imax=1098cd/klm

| Driver | Colour | 3000K | 4000K |
|---|---|---|---|
| EL. | ● | **1E3940EL** | **1E3941EL** |
| DALI | ● | **1E3940DA** | **1E3941DA** |

## Note

1 (1E2769) connector necessary for electronic and DALI versions.

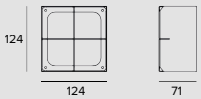
# Accessories

## Filter

| Code |
|---|
| **1E3023** |

Blade of light filter.
PMMA holographic filter for a blade of light effect.
To be completed with a dedicated holder ring.
Diameter 101mm.

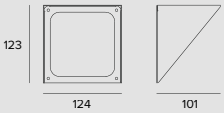
## Grid




| Code |
|---|
| **1E3025** |

Anti-glare louver.
The central elements may be removed to obtain two different levels of glare control.
Powder coated stainless steel.
Ferrite/matte black.

## Screen

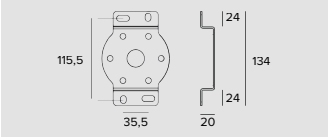



| Code |
|---|
| **1E3024** |

Asymmetric screen.
Powder coated stainless steel.
Ferrite.

# DART

## Mounting System

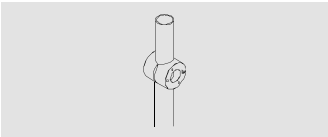



| Code |
|---|
| **1E3026** |

Plate for fixture rotation.
Powder coated stainless steel.
Ferrite.

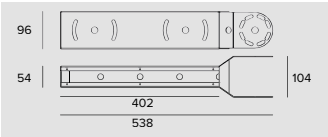
| Dimensions ØxH | Colour | Code |
|---|---|---|
| 96x182 | | **1E3028** |

Earthspike.
Powder coated stainless steel.



| Code |
|---|
| **1E2825** |

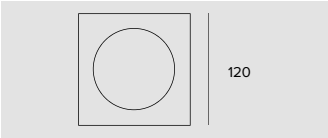
Pole bracket.
Anodised and powder coated aluminium.
Pole Ø 60mm (+/-2mm).




| Code |
|---|
| **1E3027** |

Pole multiple mounting system.
Powder coated stainless steel.
To be completed with 1E2825.
Max 4 projectors.

## Holder Ring




| Code |
|---|
| **1E3022** |

Holder ring.
Powder coated stainless steel.
AxB 120x120mm.

## Tool

| Code |
|---|
| **1E3029** |

Laser pointing system.
Installed by friction on the projector's body.
Powder coated stainless steel.
Laser included.

## Connector

| Code |
|---|
| **1E2769** |

Linear connection box IP66/IP68.
5 poles max. wire section 1.5mm$^2$.
Cable diameter range from 7 to 12mm.

| Code |
|---|
| **1E2494** |

Multiple connection box IP68.
1 IN - 3 OUT 4 poles max. wire section 2.5mm$^2$.
Cable diameter range from 6 to 12mm.

# DART

## Control systems

| | Code |
|---|---|
| | **1E3048** |

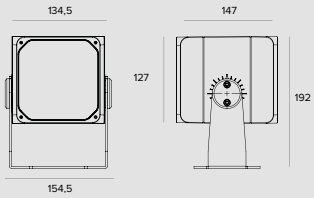
A IP67 Module for individual control of external devices equipped with DALI drivers.
The module needs to be positioned in order to receive radio signals.
The distance to the lighting fixtures can reach up to 50m.
Wireless control via the Casambi application.
LxHxP=56.5x22.3x35.8mm.

| | Code |
|---|---|
| | **1E3049** |

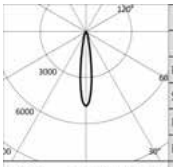
IP67 Extender for wireless control of DALI fixtures.
It generates a local DALI bus with the capacity to drive up to 64 fixtures.
Can control DALI fixtures in outdoor applications via the Casambi application.
LxHxP=150x40x148mm.

# DART

## Medium RGBW



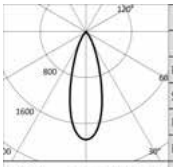

### LED RGBW / 31W / REFLECTOR / SP




| | | - | H(m) | D(m) | Emax(lx) |
|---|---|---|---|---|---|
| | | - | | 17° | |
| | Fixture Power | 31W | 1 | 0.30 | 6612 |
| | Source Flux | 1364lm | 2 | 0.59 | 1653 |
| | Fixture Flux | 1044lm | 3 | 0.89 | 735 |
| | Efficacy | 33lm/W | 4 | 1.18 | 413 |
| TS1457 | Imax=4849cd/klm | Imax | 6612cd | 5 | 1.48 | 264 |

| Power supply | Colour | RGBW |
|---|---|---|
| 850mA | | **1E3864** |

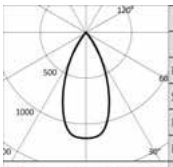
### LED RGBW / 31W / REFLECTOR / FL




| | | - | H(m) | D(m) | Emax(lx) |
|---|---|---|---|---|---|
| | | - | | 33° | |
| | Fixture Power | 31W | 1 | 0.59 | 2555 |
| | Source Flux | 1364lm | 2 | 1.19 | 639 |
| | Fixture Flux | 1028lm | 3 | 1.78 | 284 |
| | Efficacy | 33lm/W | 4 | 2.38 | 160 |
| TS1458 | Imax=1874cd/klm | Imax | 2555cd | 5 | 2.97 | 102 |

| Power supply | Colour | RGBW |
|---|---|---|
| 850mA | | **1E3865** |

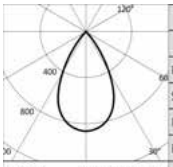
### LED RGBW / 31W / REFLECTOR / MWFL




| | | - | H(m) | D(m) | Emax(lx) |
|---|---|---|---|---|---|
| | | - | | 47° | |
| | Fixture Power | 31W | 1 | 0.88 | 1574 |
| | Source Flux | 1364lm | 2 | 1.76 | 393 |
| | Fixture Flux | 1035lm | 3 | 2.64 | 175 |
| | Efficacy | 33lm/W | 4 | 3.52 | 98 |
| TS1459 | Imax=1154cd/klm | Imax | 1574cd | 5 | 4.40 | 63 |

| Power supply | Colour | RGBW |
|---|---|---|
| 850mA | | **1E3866** |

### LED RGBW / 31W / REFLECTOR / WFL




| | | - | H(m) | D(m) | Emax(lx) |
|---|---|---|---|---|---|
| | | - | | 58° | |
| | Fixture Power | 31W | 1 | 1.12 | 1178 |
| | Source Flux | 1364lm | 2 | 2.23 | 295 |
| | Fixture Flux | 1029lm | 3 | 3.35 | 131 |
| | Efficacy | 33lm/W | 4 | 4.46 | 74 |
| TS1460 | Imax=864cd/klm | Imax | 1178cd | 5 | 5.58 | 47 |

| Power supply | Colour | RGBW |
|---|---|---|
| 850mA | | **1E3882** |

## Note

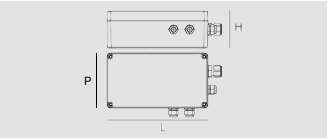
Photometrics show the maximum emission values of fixtures.

Values relating to the power of the fixture do not take into account the absorption of the accessory driver. This value depends on the choice of driver.

# DART

## Related codes

### Power Supply

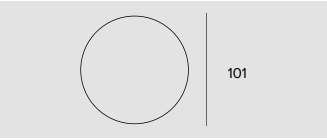



| Code |
|---|
| **1E3883** |

DMX 4 channel driver.
LxHxP=220x80x120mm, IP66, 120-277Vac.

## Accessories

### Filter

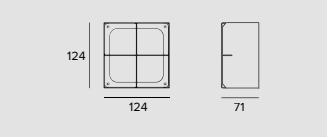



| Code |
|---|
| **1E3023** |

Blade of light filter.
PMMA holographic filter for a blade of light effect.
To be completed with a dedicated holder ring.
Diameter 101mm.

## Accessories

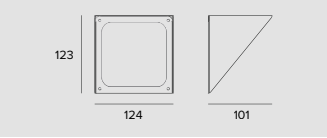
### Grid




| Code |
|---|
| **1E3025** |

Anti-glare louver.
The central elements may be removed to obtain two different levels of glare control.
Powder coated stainless steel.
Ferrite/matte black.

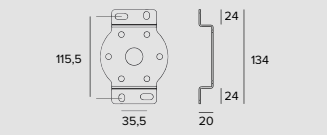
### Screen




| Code |
|---|
| **1E3024** |

Asymmetric screen.
Powder coated stainless steel.
Ferrite.

### Mounting System

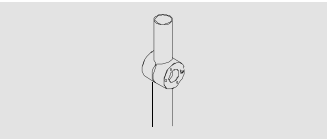



| Code |
|---|
| **1E3026** |

Plate for fixture rotation.
Powder coated stainless steel.
Ferrite.

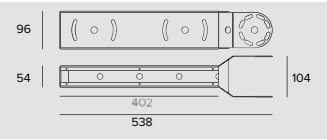
| | Dimensions ØxH | Colour | Code |
|---|---|---|---|
| | 96x182 | ● | **1E3028** |
| | 150x352 | ● | **1E3188** |

Earthspike.
Powder coated stainless steel.



| Code |
|---|
| **1E2825** |

Pole bracket.
Anodised and powder coated aluminium.
Pole Ø 60mm (+/-2mm).

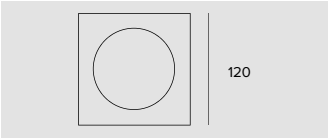



| Code |
|---|
| **1E3027** |

Pole multiple mounting system.
Powder coated stainless steel.
To be completed with 1E2825.
Max 4 projectors.

# DART

## Holder Ring




| Code |
|---|
| **1E3022** |

Holder ring.
Powder coated stainless steel.
AxB 120x120mm.

## Tool

| Code |
|---|
| **1E3029** |

Laser pointing system.
Installed by friction on the projector's body.
Powder coated stainless steel.
Laser included.

## Connector

| Code |
|---|
| **1E2493** |

Linear connection box IP68.
4 poles max. wire section 2.5mm$^2$.
Cable diameter range from 7 to 12mm.

| Code |
|---|
| **1E2494** |

Multiple connection box IP68.
1 IN - 3 OUT 4 poles max. wire section 2.5mm$^2$.
Cable diameter range from 6 to 12mm.

## Control systems

| Code |
|---|
| **1E2767** |

USB-RDM Programmer code.
DMX-RDM (Remote Device Management) address planner.
Used with the "RDM Targetti" software that can be downloaded for free from the Targetti website download section.
To be used with all RGBW products.
The USB-RDM programmer manages to direct DMX-RDM fixtures if there are no BUFFER or Splitter DMXs on the section.
Please refer to the instructions for more details.

| Code |
|---|
| **1T1898** |

my-SCENARIO Show Store.
Digital devices designed to control dynamic lighting fixtures and programme dynamic light scenarios and sequences.
The system consists of intuitive software, compatible with Windows operating systems, able to control different hardware devices with the following functions: - record colour-changing scenarios set by the operator; - allow selection among the multiple scenarios already recorded; - transmit the control signals to the lighting system.
The software is interfaced to the PC through a USB port; the interface with lighting fixtures is featured through a DMX 512 output.
The software provides a graphic simulation of the operating keys of a lighting controller; the patching function allows the DMX control channels to be assigned to fixtures by using the internal library.
The Colour Manager function allows for quick and intuitive programming of a RGB light show, consisting of several steps with assigned duration and fading times.
The built-in calendar allows full time scheduling of show playback (month, day, hour, minutes, recurring events).
The programmed light shows can be transferred to different control interfaces.

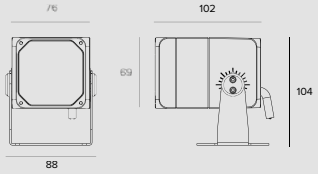
| Code |
|---|
| **1T6499** |

myScenario Wall.
DMX controller with a glass touch sensitive screen for architectural applications.
It can control two different DMX universes (2x 512 channels).
Stand alone function or connected to a computer using a USB port.
Software for creating scenarios (that can be downloaded from the Targetti website) included.
It can manage 10 different lighting zones and 50 scenarios per zone.
The touch keys on the front make it possible to modify and recall programmed scenarios.
USB cable included.
To be used with all RGB and RGBW products.

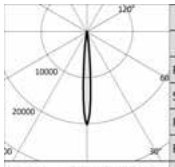
# Outdoor

# DART

## Small Integrated driver



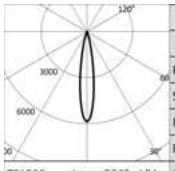

### LED / 2,7W / LENS / NSP




| | 3000K | H(m) | D(m) | Emax(lx) |
|---|---|---|---|---|
| | Ra80 | | 9° | |
| Fixture Power | 5W | 1 | 0.15 | 4041 |
| Source Flux | 200lm | 2 | 0.30 | 1010 |
| Fixture Flux | 147lm | 3 | 0.46 | 449 |
| Efficacy | 28lm/W | 4 | 0.61 | 253 |
| TS937 Imax=20203cd/klm | Imax | 4041cd | 5 | 0.76 | 162 |

| Driver | Colour | 3000K | 4000K |
|---|---|---|---|
| EL. | ● | **1E3056EL** | **1E3057EL** |

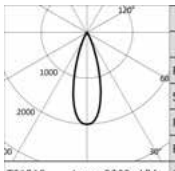
### LED / 13W / LENS / SP




| | 3000K | H(m) | D(m) | Emax(lx) |
|---|---|---|---|---|
| | Ra80 | | 17° | |
| Fixture Power | 15W | 1 | 0.30 | 10130 |
| Source Flux | 1728lm | 2 | 0.61 | 2533 |
| Fixture Flux | 1217lm | 3 | 0.91 | 1126 |
| Efficacy | 84lm/W | 4 | 1.21 | 633 |
| TS1509 Imax=5862cd/klm | Imax | 10130cd | 5 | 1.52 | 405 |

| Driver | Colour | 3000K | 4000K |
|---|---|---|---|
| EL. | ● | **1E3922EL** | **1E3923EL** |

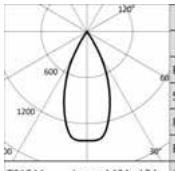
### LED / 12W / LENS / FL




| | 3000K | H(m) | D(m) | Emax(lx) |
|---|---|---|---|---|
| | Ra80 | | 32° | |
| Fixture Power | 13W | 1 | 0.58 | 3795 |
| Source Flux | 1896lm | 2 | 1.15 | 949 |
| Fixture Flux | 1281lm | 3 | 1.73 | 422 |
| Efficacy | 96lm/W | 4 | 2.31 | 237 |
| TS1510 Imax=2002cd/klm | Imax | 3795cd | 5 | 2.88 | 152 |

| Driver | Colour | 3000K | 4000K |
|---|---|---|---|
| EL. | ● | **1E3924EL** | **1E3925EL** |

### LED / 12W / REFLECTOR / MWFL




| | 3000K | H(m) | D(m) | Emax(lx) |
|---|---|---|---|---|
| | Ra80 | | 46° | |
| Fixture Power | 13W | 1 | 0.85 | 2693 |
| Source Flux | 1896lm | 2 | 1.70 | 673 |
| Fixture Flux | 1494lm | 3 | 2.54 | 299 |
| Efficacy | 112lm/W | 4 | 3.39 | 168 |
| TS1511 Imax=1421cd/klm | Imax | 2694cd | 5 | 4.24 | 108 |

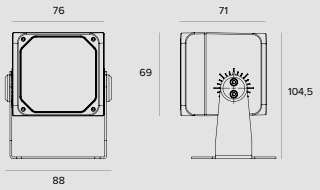
| Driver | Colour | 3000K | 4000K |
|---|---|---|---|
| EL. | ● | **1E3926EL** | **1E3927EL** |

## Note

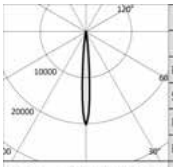
1 (1E2769) connector necessary for electronic versions.

# DART

## Small Remote driver




### LED / 2,7W / LENS / NSP

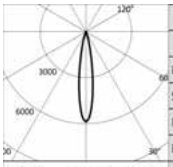



| 3000K | | H(m) | D(m) | Emax(lx) |
|---|---|---|---|---|
| Ra80 | | | 9° | |
| Fixture Power | 3W | 1 | 0.15 | 4041 |
| Source Flux | 200lm | 2 | 0.30 | 1010 |
| Fixture Flux | 147lm | 3 | 0.46 | 449 |
| Efficacy | 54lm/W | 4 | 0.61 | 253 |
| Imax | 4041cd | 5 | 0.76 | 162 |

TS937 Imax=20203cd/klm

| Power supply | Colour | 3000K | 4000K |
|---|---|---|---|
| 900mA | | **1E2986** | **1E2987** |

### LED / 15W / LENS / SP

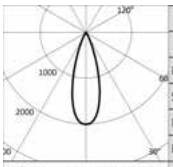



| 3000K | | H(m) | D(m) | Emax(lx) |
|---|---|---|---|---|
| Ra80 | | | 17° | |
| Fixture Power | 15W | 1 | 0.30 | 11214 |
| Source Flux | 1913lm | 2 | 0.61 | 2804 |
| Fixture Flux | 1347lm | 3 | 0.91 | 1246 |
| Efficacy | 90lm/W | 4 | 1.21 | 701 |
| Imax | 11214cd | 5 | 1.52 | 449 |

TS1506 Imax=5862cd/klm

| Power supply | Colour | 3000K | 4000K |
|---|---|---|---|
| 400mA | | **1E3916** | **1E3917** |

### LED / 14W / LENS / FL

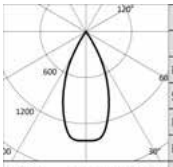



| 3000K | | H(m) | D(m) | Emax(lx) |
|---|---|---|---|---|
| Ra80 | | | 32° | |
| Fixture Power | 14W | 1 | 0.58 | 4295 |
| Source Flux | 2146lm | 2 | 1.15 | 1074 |
| Fixture Flux | 1450lm | 3 | 1.73 | 477 |
| Efficacy | 107lm/W | 4 | 2.31 | 268 |
| Imax | 4295cd | 5 | 2.88 | 172 |

TS1507 Imax=2002cd/klm

| Power supply | Colour | 3000K | 4000K |
|---|---|---|---|
| 400mA | | **1E3918** | **1E3919** |

### LED / 14W / REFLECTOR / MWFL




| 3000K | | H(m) | D(m) | Emax(lx) |
|---|---|---|---|---|
| Ra80 | | | 46° | |
| Fixture Power | 14W | 1 | 0.85 | 3048 |
| Source Flux | 2146lm | 2 | 1.70 | 762 |
| Fixture Flux | 1691lm | 3 | 2.54 | 339 |
| Efficacy | 124lm/W | 4 | 3.39 | 190 |
| Imax | 3050cd | 5 | 4.24 | 122 |

TS1508 Imax=1421cd/klm

| Power supply | Colour | 3000K | 4000K |
|---|---|---|---|
| 400mA | | **1E3920** | **1E3921** |

## Note

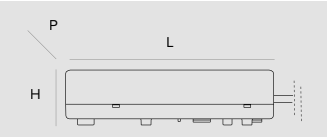
Remote driver version: to be completed with an electronic or DALI driver.

Remote driver version: values relating to the power of the fixture do not take into account the absorption of the accessory driver. This value depends on the choice of driver.

# DART

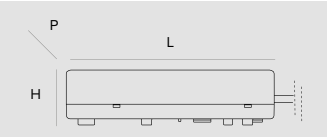
## Related codes

### Power Supply



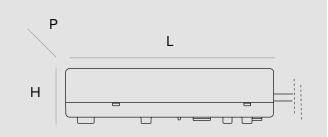

| Dimensions LxHxP | W | Power supply | Output current | IP | Code |
|---|---|---|---|---|---|
| 146x22x43 | 18W | 220-240Vac | 400mA | IP20 | **1T4215EL** |
| 110x22x52 | 20W<br>15W | 220-240Vac<br>110-127Vac | 900mA | IP20 | **1T5295EL** |
| 115x26x53 | 20W<br>15W | 220-240Vac<br>110-127Vac | 400mA | IP68 | **1E3033EL** |
| 150x40x148 | 20W<br>15W | 220-240Vac<br>110-127Vac | 900mA | IP68 | **1E3034EL** |

Electronic power supply.




| Dimensions LxHxP | W | Power supply | Output current | IP | Code |
|---|---|---|---|---|---|
| 111x22x52 | 20W<br>15W | 220-240Vac<br>110-127Vac | 400mA | IP20 | **1T4215D** |
| 111x22x52 | 20W<br>15W | 220-240Vac<br>110-127Vac | 900mA | IP20 | **1T5295D** |
| 135x31x80 | 20W | 110-240Vac | 400mA | IP68 | **1E3033D** |
| 220x80x120 | 20W<br>15W | 220-240Vac<br>110-127Vac | 900mA | IP68 | **1E3034D** |

1-10V power supply.




| Dimensions LxHxP | W | Power supply | Output current | IP | Code |
|---|---|---|---|---|---|
| 146x30x44 | 20W | 220-240Vac | 400mA | IP20 | **1T4215DA** |
| 150x28x42 | 20W | 220-240Vac | 900mA | IP20 | **1T5295DA** |
| 115x26x53 | 20W<br>15W | 220-240Vac<br>110-127Vac | 400mA | IP68 | **1E3033DA** |
| 220x80x120 | 20W | 220-240Vac | 900mA | IP68 | **1E3034DA** |

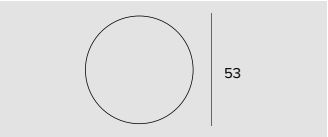
DALI power supply.

## Note

The drivers selected by Targetti make the fixtures “Safe Flicker”.

## Accessories

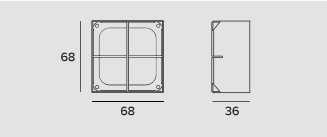
### Filter




| Ø | Code |
|---|---|
| 53 | **1E3012** |

Blade of light filter.
PMMA holographic filter for a blade of light effect.
To be completed with a dedicated holder ring.

### Grid

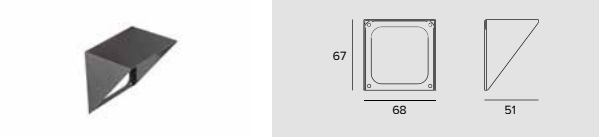



| Code |
|---|
| **1E3014** |

Anti-glare louver.
The central elements may be removed to obtain two different levels of glare control.
Powder coated stainless steel.
Ferrite/matte black.

# DART

## Screen




| Code |
|---|
| **1E3013** |

Asymmetric screen.
Powder coated stainless steel.
Ferrite.

## Mounting System

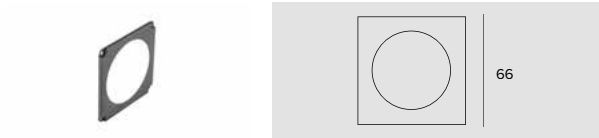
| Code |
|---|
| **1E3015** |

Plate for fixture rotation.
Powder coated stainless steel.
Ferrite.

| Dimensions ØxH | Colour | Code |
|---|---|---|
| 70x182 | | **1E3016** |

Earthspike.
Powder coated stainless steel.

## Holder Ring




| L | Code |
|---|---|
| 66 | **1E3011** |

Holder ring.
Powder coated stainless steel.

## Connector

| Code |
|---|
| **1E2769** |

Linear connection box IP66/IP68.
5 poles max. wire section 1.5mm$^2$.
Cable diameter range from 7 to 12mm.

| Code |
|---|
| **1E2494** |

Multiple connection box IP68.
1 IN - 3 OUT 4 poles max. wire section 2.5mm$^2$.
Cable diameter range from 6 to 12mm.

## Control systems

| Code |
|---|
| **1E3048** |

A IP67 Module for individual control of external devices equipped with DALI drivers.
The module needs to be positioned in order to receive radio signals.
The distance to the lighting fixtures can reach up to 50m.
Wireless control via the Casambi application.
LxHxP=56.5x22.3x35.8mm.

| Code |
|---|
| **1E3049** |

IP67 Extender for wireless control of DALI fixtures.
It generates a local DALI bus with the capacity to drive up to 64 fixtures.
Can control DALI fixtures in outdoor applications via the Casambi application.
LxHxP=150x40x148mm.

# Outdoor

**Zeisehof**
Hamburg, Deutschland

**Architect** Störmer Murphy & Partners
**Photographer** Carsten Brügmann

**Lighting Design** Peter Andres

## Requisites and information

All fixtures of the Targetti collection have been designed and produced to comply with European Standard EN60598-1 relative to the safety requisite of light fixtures.

CE **DIRECTIVES EUROPEAN COUNCIL**

All fixtures comply with the following directives:

- EMC Directive 2014/30/EU
- LV Directive 2014/35/EU
- RoHS Directive 2011/65/EU

## Unless specified otherwise

- all fixtures are supplied without lamps;
- all fixtures are sold separately;
- all measurements are expressed in millimeters;
- all fixtures at low voltage are supplied without transformer;
- For products in Class III performance is only guaranteed using the electronic power supplies and drivers indicated in the catalogue.

**TARGETTI SANKEY SpA**
Certificated ISO 9001 n° 9130. TAR1
Certificated ISO 14001 n° IT319206

The Enec mark, ISO9001 and ISO14001 certifications and the CE marking all guarantee that the activities carried out internally in the company are governed and controlled by procedures which assure constant level of quality.

Accredited laboratory in accordance with ISO 17025.

## Consorzio ecolight

Targetti Sankey Spa is a member of the Ecolight consortium that was set up in 2004 (D.Lgs. 49/2014) to comply with the provisions of the European Directive that was adopted in Italy as the European Directive 2012/19/EU for WEEE on managing, recovering and treating waste electrical and electronic equipment, used batteries and accumulators in compliance with all applicable legislation.

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## Light beam apertures

| from | to | beam | |
|---|---|---|---|
| 5° | 10° | Narrow Spot | **NSP** |
| 11° | 25° | Spot | **SP** |
| 26° | 40° | Flood | **FL** |
| 41° | 50° | Medium Wide Flood | **MWFL** |
| 51° | 70° | Wide Flood | **WFL** |
| 71° | 120° | Very Wide Flood | **VWFL** |
| | | Wall Washer | **WW** |
| | | Narrow Asymmetric | **N. ASYM** |
| | | Asymmetric | **ASYM** |

## Icons legend

| | |
|---|---|
| | Class I luminaire in which the protection against electrical shock is guaranteed by the connections of the conductive elements accessible to a protective conductor (earth connection). |
| | Luminaire in which the connection to a protective conductor (earth connection) guarantees the immunity to radio noises. |
| | Class II luminaire (double insulation), protected against the accidental contact with parts under tension from the user. |
| III | Class III luminaire, suitable for connection to very low voltage circuits. |
| IP.. | Solid particle and liquid ingress protection degree. |
| IP..<br>IP.. | Protection degree - Recessed part .<br>Protection degree - Exposed part. |
| IK.. | Impact protection degree. |
| ENEC | ENEC<br>European Norms Electrical Certification. |

## Particular symbols

| | |
|---|---|
| 0,5 | Weight of the single fixture. |
| | Cable length. |
| | Walk-over. |
| | Driver-over safe. |
| SAFE FLICKER | Fixtures that have parameters below the minimum visibility threshold PstLM≤1 and SVM≤0.4 (IEC TR 61547-1 and IEC TR 63158). |
| DBS | Dynamic Beam Shaper optical technology with remote management of the beam opening. |
| Ra | LED with Ra__ where not present in the catalogue, available on request. |
| | Different colour temperatures available on request. |
| | Custom finish of your choice from the Targetti Colours range and RAL indicated in the colour chart can be downloaded on line from the download section. |
| | Treatment carried out on request. |
| | Supplied on request with an integrated or remote 110-277Vac power supply as indicated for the standard model. |
| | LED version with a different “Tunable White” tone available on request. |

Note

- Please contact us for on demand treatments and versions.
- The performances reported on the products refer to the use of the recommended drivers.
- The drivers selected by Targetti make the fixtures “Safe Flicker”.

June 2023 EN

targetti.com