

TARGETTI

DART Small

Compact Adjustable Professional Projector Flood Light

Concept: Extremely small footprint adjustable LED projector.

Housing: Die-cast aluminum body and joints for maximum heat dissipation.

Materials: Die-cast aluminum housing powder coated in Ferrite Grey color.

Optics: NSP use high Efficiency LED Emitter. SP, FL, and MWFL use high efficiency LED Chip on Board. Different optical systems depending on beam angles: Equipped with methacrylate lenses for the NSP, SP and FL versions or convex faceted precision optics in high specularly anodised aluminium for the MWFL version.

Mounting: Adjustable up to $\pm 45^\circ$ on the horizontal plane and $+90^\circ/-45^\circ$ on the vertical plane with aim locking set screw. Can be installed directly to mounting surface.

Installation: Pre-cabled with 10' Belden direct burial 18ga 2 Conductor Cable for Connection to remote power supply.

Finish: Ferrite Grey

Power Supply: Remote Class II 120V-277VAC power supply required, see page 2 for options.

Wattage: 5W (NSP), 14W (SP, FL, MF)

Color Temperature: 3000°K / 4000°K

Lumen Maintenance (L70): 50,000hrs

Calculation for LED fixtures are based on measurements that comply with IES LM-80.

CRI: 84

Voltage: 24V DC

IK Rating: IK10

IP Rating: IP66

Certifications: cULus Class 2 Wet Location Listed E479873

Tested in accordance with LM-79-08

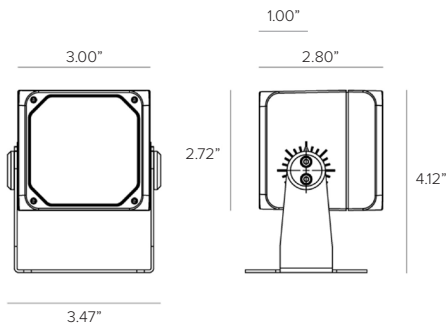
Warranty: 5 year limited warranty



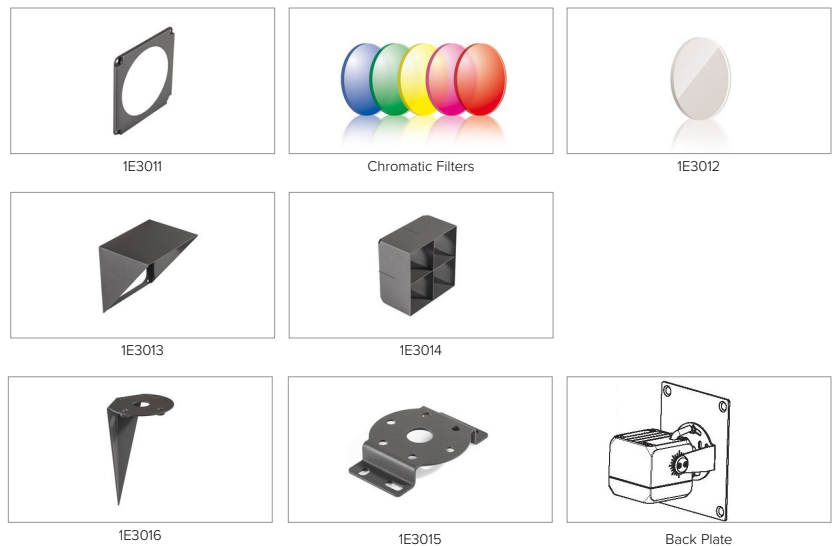
Lumens:	3000°K	4000°K
Narrow Spot 9°	= 138 Lm	146Lm
Spot 17°	= 751Lm	785Lm
Flood 32°	= 1106Lm	1143Lm
Medium Wide Flood 46°	= 1288Lm	1331Lm

PRODUCT CODE	DRIVER	OPTICS	WATTAGE	COLOR TEMP	VOLTAGE	+	POWER SUPPLY
DAS — Dart Small	RP — Remote Power	NS — Narrow Spot 9°	L1 — 5W	30 — 3000K	24 — 24VDC		
		SP — Spot 17°	L2 — 14W	40 — 4000K			
		FL — Flood 32°					
		MF — Medium Wide Flood 46°					

Views



OPTICAL ACCESSORIES:	
Maximum of two optical accessories per fixture	
1E3011	Holder ring. CNC machined anodised and powder coated aluminium. Diameter 2.6in x 2.6in. Required for use of all filters.
1E3006	Chromatic filter Red. Glass with dichroic treatment. To be completed with dedicated holder ring. Diameter 2.1in.
1E3007	Chromatic filter Green. Glass with dichroic treatment. To be completed with dedicated holder ring. Diameter 2.1in.
1E3008	Chromatic filter Blue. Glass with dichroic treatment. To be completed with dedicated holder ring. Diameter 2.1in.
1E3009	Chromatic filter Yellow. Glass with dichroic treatment. To be completed with dedicated holder ring. Diameter 2.1in.
1E3010	Chromatic filter Magenta. Glass with dichroic treatment. To be completed with dedicated holder ring. Diameter 2.1in.
1E3012	Blade light filter. PMMA holographic filter for a blade of light effect. To be completed with dedicated holder ring. Diameter 2.1in.
1E3013	Asymmetric screen. Powder coated stainless steel. Not suitable with 1E3014.
1E3014	Anti-glare grid. The central elements may be removed to obtain two different levels of glare control. Powder coated stainless steel. Not suitable with 1E3013.



INSTALLATION ACCESSORIES:	
Maximum of one installation accessory per fixture	
1E3015	Plate for fitting rotation. Powder coated stainless steel.
1E3016	Earthspike. Powder coated stainless steel.
1DU3015	Back Plate for Wall Mount Installation. Powder coated stainless steel with Neoprene closed cells EPDM black foam. Included with 1E3015. Dimensions 5"W x 6"H X 0.875"D.

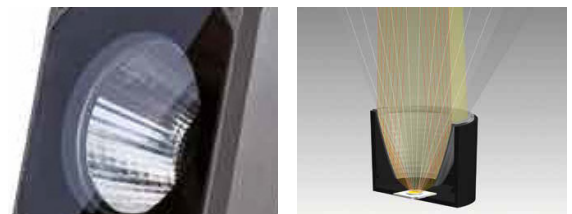
Optical System

The optical system is the heart of every lighting fixture and its role is to adapt to the lamp, control emission and create the light beam. Every optical system is different, calibrated by a specific lamp to maximise performance and designed to interpret a lighting task to the full. Following rapid developments in LED lamps and new technology associated with them it is now more important than ever to look for new solutions, geometry and materials. Given the importance and specificity of this function Targetti has an internal design department dedicated to constantly creating and evolving its optical systems. Extremely innovative proprietary systems that are very different to each other, often protected by patents are developed with careful attention to the precision of the light beams and the best efficiency possible.

Reflector Optics:

FACETED

Maximum Efficiency of soft light. Made from high vacuum metallised plastic protected with a Scratch Proof Formula or from polished anodised pure aluminium, their high reflectance always ensures high optical efficiency. Profiles designed with the best simulation software and the ellipsoidal convex facets overlaid on them are calibrated to generate various beam angles with an optimal light mix to create precise, soft, clean beams.



Tree Mounting Accessories

TREE STRAP - CHOOSE 1

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. The strap is made to coordinate with up to 4 fixtures and 1 wiring connection box.

TTS0101	Tree strap for trees 39" in circumference or smaller. Olive Green nylon strap with Gunmetal cinch buckle.
TTS0102	Tree strap for trees 39" in circumference or smaller. Coyote Brown nylon strap with Gunmetal cinch buckle.
TTS0103	Tree strap for trees 39" in circumference or smaller. Graphite Grey nylon strap with Gunmetal cinch buckle.



Tree Strap with Fixture Bracket

INSTALLATION STRAP (OPTIONAL)

Durable 1.5 inch wide Nylon webbing Strap is flexible with Metal Cinch Buckle and lock in loop to prevent slipping. The installation strap comes with 4 each 12 inch Rubber Loops used to hold up to 4 fixtures in place while positioning and tightening the Tree Strap in position during Installation or Maintenance and then removed for operation. **For use with 2 or more fixtures.**

TTIS0101	Installation strap flexible nylon webbing strap with metal cinch buckle and lock in loop. Includes 4 each 12" rubber loops to hold up to 4 fixtures in place while positioning.
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FIXTURE BRACKETS (REQUIRED) - CHOOSE 1

Buckle style Brackets for securing onto Tree Straps.

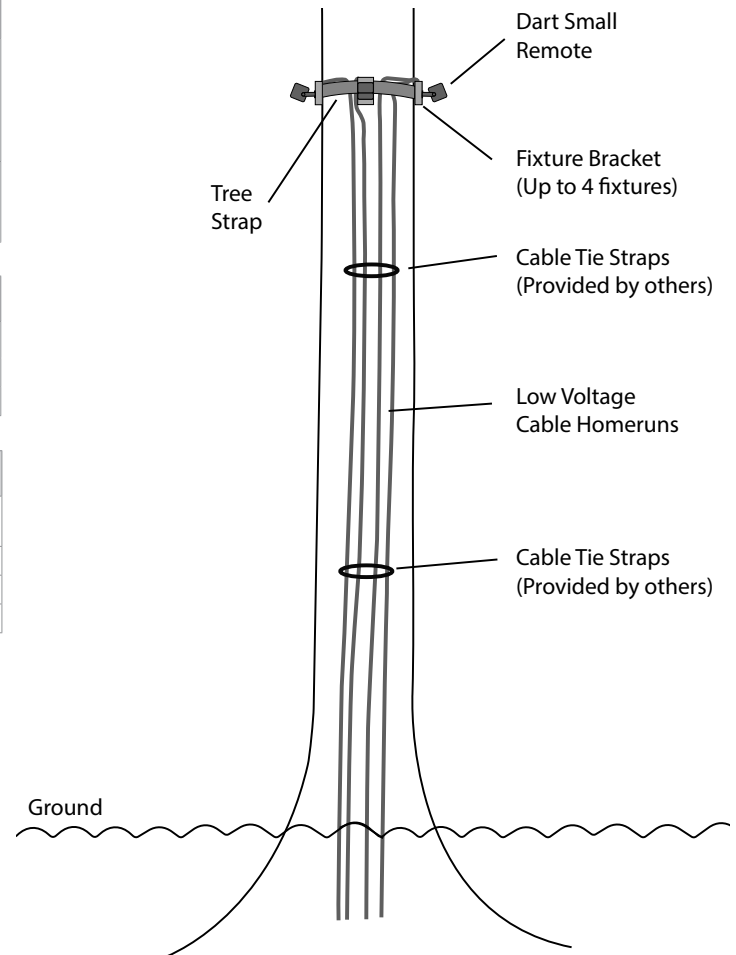
TTPI0101	Ferrite Grey finish Bracket with stainless steel mounting screws.
TTPI0102	Bronze finish Bracket with stainless steel mounting screws.

MESH WIRE PROTECTION COVER (OPTIONAL)

A braided polyethylene terephthalate (PET) monofilament yarn resistant to chemical degradation, UV radiation, and abrasion.

TTSJS01	Carbon Grey 3/8" SJO Cord Sleeve (Sold per foot)
TTSJS02	Brown 3/8" SJO Cord Sleeve (Sold per foot)
TTSJS03	Forest Green 3/8" SJO Cord Sleeve (Sold per foot)

Wiring Configuration



Power Supply (REQUIRED)	Type	Wattage	Input/Output Voltage	Dimmable	IP Rating	Output	Dimensions
DEL60PWM	ELECTRONIC PWM DRIVER STANDALONE, UL LISTED ENCLOSURE PROVIDED BY OTHERS	60W	120-277V / 24V	0-10V/PWM 10%	IP67	UR CLASS 2	5.9" X 2.09" X 1.38"
DEL90PWM	ELECTRONIC PWM DRIVER STANDALONE, UL LISTED ENCLOSURE PROVIDED BY OTHERS	90W	120-277V / 24V	0-10V/PWM 10%	IP67	UR CLASS 2	6.73" X 2.48" X 1.48"
DEDDxxx consult factory	ELECTRONIC 0-10V DRIVER STANDALONE, UL LISTED ENCLOSURE PROVIDED BY OTHERS	consult factory	120-277V / 24V	0-10V DIMMING 0.1%	N/A	UR CLASS 2	consult factory
DELV40124D	ELECTRONIC LOW VOLTAGE TRANSFORMER	40W	120-277V / 24V	PHASE (120V ONLY) /0-10V DIMMING 10%	IP66 / NEMA4 ENCLOSURE	UL CLASS 2	11" x 4" x 2.21" ¹
DELV60124D	ELECTRONIC LOW VOLTAGE TRANSFORMER	60W	120-277V / 24V	PHASE (120V ONLY) /0-10V DIMMING 10%	IP66 / NEMA4 ENCLOSURE	UL CLASS 2	11" x 4" x 2.21" ¹
DELV96124D	ELECTRONIC LOW VOLTAGE TRANSFORMER	96W	120-277V / 24V	PHASE (120V ONLY) /0-10V DIMMING 10%	IP67 / NEMA4 ENCLOSURE	UL CLASS 2	11" x 4" x 2.21" ¹
DELX601241CPWM	ELECTRONIC PWM DRIVER	60W	120-277V / 24V	0-10V/PWM 10%	IP67 / NEMA3R ENCLOSURE	UL CLASS 2	10" x 10" x 4" ¹
DELX901241CPWM	ELECTRONIC PWM DRIVER	90W	120-277V / 24V	0-10V/PWM 10%	IP67 / NEMA3R ENCLOSURE	UL CLASS 2	10" x 10" x 4" ¹
DELX1802242CPWM	ELECTRONIC PWM DRIVER	2X90W	120-277V / 24V	0-10V/PWM 10%	IP67 / NEMA3R ENCLOSURE	UL CLASS 2	12" x 12" x 4" ¹
DELX2703243CPWM	ELECTRONIC PWM DRIVER	3X90W	120-277V / 24V	0-10V/PWM 10%	IP67 / NEMA3R ENCLOSURE	UL CLASS 2	12" x 12" x 4" 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).

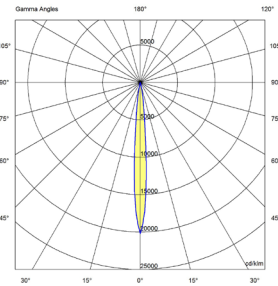

MAX FIXTURES PER DRIVER

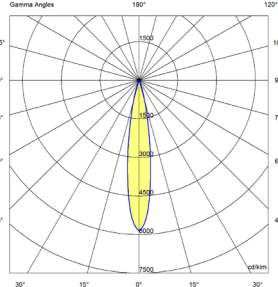

		Fixture Wattage						
		3W	4W	5W	6W	9W	10W	14W
Driver Wattage	40W	10	8	6	5	3	3	2
	60W	16	12	9	8	5	4	3
	96W	25	19	15	12	8	7	5
	90W	24	18	14	12	8	7	5
	2X90W	48	36	28	24	16	14	10
	3X90W	72	54	43	36	24	21	15
	100W	26	20	16	12	8	8	5
	2X100	53	40	32	26	17	16	11

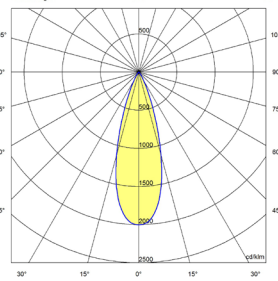

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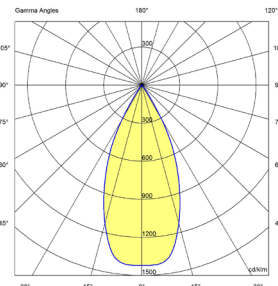

DART SMALL

Photometry

NARROW SPOT		POLAR GRAPH	CONE OF LIGHT	
Fixture Power	5W		(Ft)	Max Med
Fixture Output	138Lm	146Lm	6.00	ftcd ftcd
Kelvin Temp	3000°K	4000°K	12.00	98 63
Beam Spread	NSP 9°	NSP 9°	18.00	25 16
I _{Max}	20,200cd/klm	20,200cd/klm	24.00	11 7
Efficacy	27.6Lm/W	29.2Lm/W	30.00	6 4
				4 3

SPOT		POLAR GRAPH	CONE OF LIGHT	
Fixture Power	14W		(Ft)	Max Med
Fixture Output	751Lm	785Lm	6.00	ftcd ftcd
Kelvin Temp	3000°K	4000°K	12.00	172 109
Beam Spread	Spot 17°	Spot 17°	18.00	43 27
I _{Max}	5,862cd/klm	5,862cd/klm	24.00	19 12
Efficacy	54Lm/W	56Lm/W	30.00	11 7
				7 4

FLOOD		POLAR GRAPH	CONE OF LIGHT	
Fixture Power	14W		(Ft)	Max Med
Fixture Output	1106 Lm	1143Lm	6.00	ftcd ftcd
Kelvin Temp	3000°K	4000°K	12.00	91 56
Beam Spread	Flood 32°	Flood 32°	18.00	23 14
I _{Max}	2,001cd/klm	2,001cd/klm	24.00	10 6
Efficacy	79 Lm/W	82 Lm/W	30.00	6 4
				4 2

MEDIUM WIDE FLOOD		POLAR GRAPH	CONE OF LIGHT	
Fixture Power	14W		(Ft)	Max Med
Fixture Output	1288Lm	1331Lm	6.00	ftcd ftcd
Kelvin Temp	3000°K	4000°K	12.00	64 38
Beam Spread	MWF 46°	MWF 46°	18.00	16 9
I _{Max}	1,421cd/klm	1,421cd/klm	24.00	7 4
Efficacy	92Lm/W	95Lm/W	30.00	4 2
				3 2