

DART

GENERAL INFO

Professional adjustable projector
76x76 - 134x134 - 214x214

LED

Chip on board
Emitter for versions NSP Small e Medium
From 200lm to 8978lm
3000K – 4000K
Ra80 – Ra84

PRODUCT EFFICACY

Unitil 110lm/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 – 1-10V
Casambi control: the DALI version is fitted
with special accessories.

MATERIAL

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

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.

		SMALL	MEDIUM	MAXI
		76x76mm	134x134mm	214x214mm
LED	Flux (lm)	200-1869	1332-4628	3273-8978
	Power	3W - 12W	16W - 34W	26W - 80W
OPTICS				
NSP	LENTICULAR	•	•	
NSP	INDIRECT			•
SP	LENTICULAR	•		
SP	HYBRID		•	•
FL	LENTICULAR	•		
FL	HYBRID		•	•
MWFL	REFLECTOR	•	•	•
WFL	REFLECTOR	•	•	•
WW	REFLECTOR		•	•
NWW	REFLECTOR		•	





LA COMÉDIE DE SAINT-ÉTIENNE 2017

ARCHITECT
Studio Milou

LIGHTING DESIGN
Les Eclaireurs

PHOTOGRAPHER
Jerome Ricolleau

COUNTRY
Saint-Étienne, France

DART plus

01



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 6° 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.

02



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.

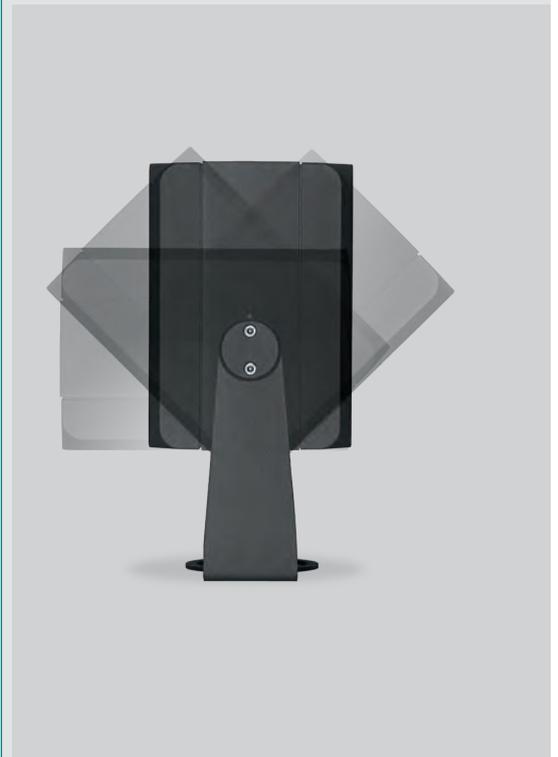
03



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.

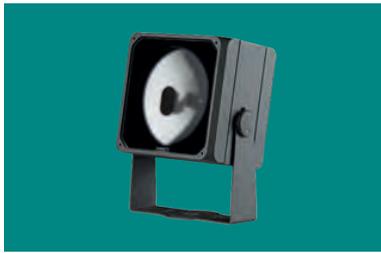
04



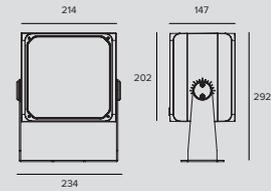
Off-centre rotation to zoom

the body of the fixture towards and away from the support surface. Fitted with a graduated scale for precise aiming.

DART



Maxi



LED / 26W / INDIRECT / NSP



	3000K	H(m)	D(m)	E _{max} (lx)
	Ra84		6°	
Fixture Power	28W	1	0.11	152341
Source Flux	3273lm	2	0.22	38085
Fixture Flux	2170lm	3	0.33	16927
Efficacy	77lm/W	4	0.45	9521
TS1008	I _{max} =46545cd/klm	I _{max}	152341cd	5
			0.56	6094

Driver	Colour	3000K	4000K
EL.	●	1E3064EL	1E3070EL
1-10V	●	1E3064D	1E3070D
DALI	●	1E3064DA	1E3070DA

LED / 34W / INDIRECT / NSP



	3000K	H(m)	D(m)	E _{max} (lx)
	Ra84		6°	
Fixture Power	37W	1	0.11	196977
Source Flux	4232lm	2	0.22	49244
Fixture Flux	2806lm	3	0.33	21886
Efficacy	75lm/W	4	0.45	12311
TS1008	I _{max} =46545cd/klm	I _{max}	196977cd	5
			0.56	7879

Driver	Colour	3000K	4000K
EL.	●	1E3076EL	1E3082EL
1-10V	●	1E3076D	1E3082D
DALI	●	1E3076DA	1E3082DA

LED / 51W / HYBRID / SP



	3000K	H(m)	D(m)	E _{max} (lx)
	Ra84		17°	
Fixture Power	54W	1	0.30	34252
Source Flux	6780lm	2	0.60	8563
Fixture Flux	3634lm	3	0.89	3806
Efficacy	67lm/W	4	1.19	2141
TS1009	I _{max} =5052cd/klm	I _{max}	34252cd	5
			1.49	1370

Driver	Colour	3000K	4000K
EL.	●	1E3065EL	1E3071EL
1-10V	●	1E3065D	1E3071D
DALI	●	1E3065DA	1E3071DA

LED / 80W / HYBRID / SP



	3000K	H(m)	D(m)	E _{max} (lx)
	Ra84		17°	
Fixture Power	88W	1	0.30	43451
Source Flux	8601lm	2	0.60	10863
Fixture Flux	4609lm	3	0.89	4828
Efficacy	52lm/W	4	1.19	2716
TS1009	I _{max} =5052cd/klm	I _{max}	43451cd	5
			1.49	1738

Driver	Colour	3000K	4000K
EL.	●	1E3077EL	1E3083EL
1-10V	●	1E3077D	1E3083D
DALI	●	1E3077DA	1E3083DA

LED / 51W / HYBRID / FL



	3000K	H(m)	D(m)	E _{max} (lx)
	Ra84		27°	
Fixture Power	54W	1	0.47	19248
Source Flux	6780lm	2	0.94	4812
Fixture Flux	4081lm	3	1.42	2139
Efficacy	75lm/W	4	1.89	1203
TS1010	I _{max} =2839cd/klm	I _{max}	19248cd	5
			2.36	770

Driver	Colour	3000K	4000K
EL.	●	1E3066EL	1E3072EL
1-10V	●	1E3066D	1E3072D
DALI	●	1E3066DA	1E3072DA

LED / 80W / HYBRID / FL



	3000K	H(m)	D(m)	E _{max} (lx)
	Ra84		27°	
Fixture Power	88W	1	0.47	24418
Source Flux	8601lm	2	0.94	6104
Fixture Flux	5177lm	3	1.42	2713
Efficacy	59lm/W	4	1.89	1526
TS1010	I _{max} =2839cd/klm	I _{max}	24418cd	5
			2.36	977

Driver	Colour	3000K	4000K
EL.	●	1E3078EL	1E3084EL
1-10V	●	1E3078D	1E3084D
DALI	●	1E3078DA	1E3084DA

LED / 51W / REFLECTOR / MWFL



	3000K	H(m)	D(m)	E _{max} (lx)		
	Ra84		38°			
	Fixture Power	54W	1	0.69	8952	
	Source Flux	6780lm	2	1.38	2238	
	Fixture Flux	5227lm	3	2.07	995	
	Efficacy	96lm/W	4	2.76	560	
TS1011	I _{max} =1333cd/klm	I _{max}	9035cd	5	3.44	358

Driver	Colour	3000K	4000K
EL.	●	1E3067EL	1E3073EL
1-10V	●	1E3067D	1E3073D
DALI	●	1E3067DA	1E3073DA

LED / 80W / REFLECTOR / MWFL



	3000K	H(m)	D(m)	E _{max} (lx)		
	Ra84		38°			
	Fixture Power	88W	1	0.69	11357	
	Source Flux	8601lm	2	1.38	2839	
	Fixture Flux	6631lm	3	2.07	1262	
	Efficacy	75lm/W	4	2.76	710	
TS1011	I _{max} =1333cd/klm	I _{max}	11461cd	5	3.44	454

Driver	Colour	3000K	4000K
EL.	●	1E3079EL	1E3085EL
1-10V	●	1E3079D	1E3085D
DALI	●	1E3079DA	1E3085DA

LED / 51W / REFLECTOR / WFL



	3000K	H(m)	D(m)	E _{max} (lx)		
	Ra84		52°			
	Fixture Power	54W	1	0.97	6549	
	Source Flux	6780lm	2	1.94	1637	
	Fixture Flux	5213lm	3	2.91	728	
	Efficacy	96lm/W	4	3.88	409	
TS1012	I _{max} =966cd/klm	I _{max}	6549cd	5	4.85	262

Driver	Colour	3000K	4000K
EL.	●	1E3068EL	1E3074EL
1-10V	●	1E3068D	1E3074D
DALI	●	1E3068DA	1E3074DA

LED / 80W / REFLECTOR / WFL



	3000K	H(m)	D(m)	E _{max} (lx)		
	Ra84		52°			
	Fixture Power	88W	1	0.97	8308	
	Source Flux	8601lm	2	1.94	2077	
	Fixture Flux	6614lm	3	2.91	923	
	Efficacy	75lm/W	4	3.88	519	
TS1012	I _{max} =966cd/klm	I _{max}	8308cd	5	4.85	332

Driver	Colour	3000K	4000K
EL.	●	1E3080EL	1E3086EL
1-10V	●	1E3080D	1E3086D
DALI	●	1E3080DA	1E3086DA

LED / 51W / ASYM



	3000K	H(m)	D1(m)	D2(m)	E _{max} (lx)		
	Ra84		89°	76°			
	Fixture Power	54W	1	1.96	3.41	2831	
	Source Flux	6780lm	2	3.93	6.83	708	
	Fixture Flux	5827lm	3	5.89	10.24	315	
	Efficacy	107lm/W	4	7.86	13.66	177	
TS1013	I _{max} =895cd/klm	I _{max}	6070cd	5	9.82	17.07	113

Driver	Colour	3000K	4000K
EL.	●	1E3069EL	1E3075EL
1-10V	●	1E3069D	1E3075D
DALI	●	1E3069DA	1E3075DA

LED / 80W / ASYM



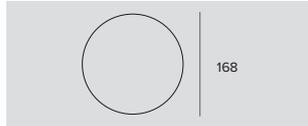
	3000K	H(m)	D1(m)	D2(m)	E _{max} (lx)		
	Ra84		89°	76°			
	Fixture Power	88W	1	1.96	3.41	3591	
	Source Flux	8601lm	2	3.93	6.83	898	
	Fixture Flux	7391lm	3	5.89	10.24	399	
	Efficacy	84lm/W	4	7.86	13.66	224	
TS1013	I _{max} =895cd/klm	I _{max}	7700cd	5	9.82	17.07	144

Driver	Colour	3000K	4000K
EL.	●	1E3081EL	1E3087EL
1-10V	●	1E3081D	1E3087D
DALI	●	1E3081DA	1E3087DA

DART

Accessories

Filter



Filter	Ø	Code
Red	168	1E3088
Green	168	1E3089
Blue	168	1E3090
Yellow	168	1E3091
Magenta	168	1E3092

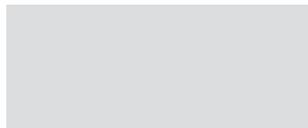
Chromatic filter.
Glass with dichroic treatment.
Non suitable for the asymmetric reflector nor for grazing lighting.
To be completed with a dedicated holder ring.



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.

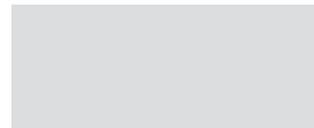
Grid



Code
1E3096

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

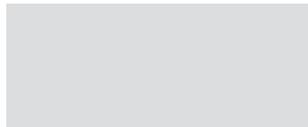
RAY Shade



Code
1E3095

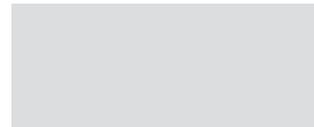
Asymmetric screen.
Powder coated stainless steel.

Mounting System



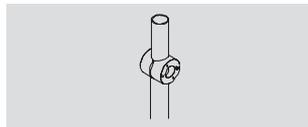
Code
1E3026

Plate for fixture rotation.
Powder coated stainless steel.



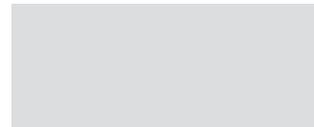
Ø	H	Code
96	182	1E3028
150	352	1E3188

Earthspike.
Powder coated stainless steel.



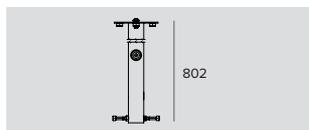
Code
1E2825

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.

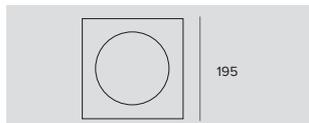


Code

1E3187

Pole with base.
Powder coated stainless steel.

Holder Ring

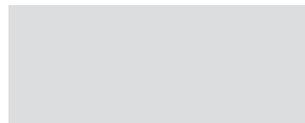


Code

1E3093

Holder ring.
Powder coated stainless steel.
Ax B 195x195mm.

Tool

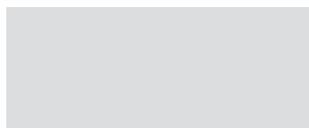


Code

1E3098

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

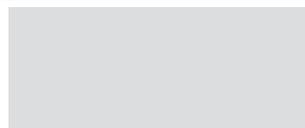
Connector



Code

1E2493

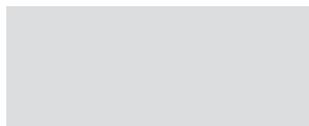
Connector for coaxial connection.
4 poles max. wire section 2.5mm².
Cable diameter range from 7 to 12mm.
IP68



Code

1E2494

Connector for coaxial connection.
1 IN - 3 OUT 4 poles max. wire section 2.5mm².
Cable diameter range from 8 to 12mm.
IP68

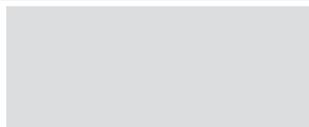


Code

1E3400

Connection kit for looping between fixtures.
IP68

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.



Code

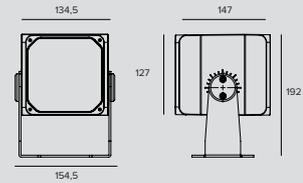
1E3049

IP67 Extender for wireless control with DALI interfaces.
It generates a local DALI bus with the capacity to drive up to 64 fixtures and can control groups of fixtures in outdoor applications.
It prevents any change to the management features provided by the Casambi system.

DART



Medium



LED / 16W / LENSES / NSP



	3000K	H(m)	D(m)	E _{max} (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	
TS941	I _{max} =18153cd/klm	I _{max}	24179cd	5	0.86	967

Driver	Colour	3000K	4000K
EL.	●	1E2994EL	1E2995EL
1-10V	●	1E2994D	1E2995D
DALI	●	1E2994DA	1E2995DA

LED / 34W / HYBRID / SP



	3000K	H(m)	D(m)	E _{max} (lx)		
	Ra84		13°			
	Fixture Power	37W	1	0.23	38850	
	Source Flux	4428lm	2	0.46	9712	
	Fixture Flux	2738lm	3	0.69	4317	
	Efficacy	74lm/W	4	0.92	2428	
TS942	I _{max} =8774cd/klm	I _{max}	38850cd	5	1.14	1554

Driver	Colour	3000K	4000K
EL.	●	1E2996EL	1E2997EL
1-10V	●	1E2996D	1E2997D
DALI	●	1E2996DA	1E2997DA

LED / 34W / HYBRID / FL



	3000K	H(m)	D(m)	E _{max} (lx)		
	Ra84		33°			
	Fixture Power	37W	1	0.58	9385	
	Source Flux	4428lm	2	1.17	2346	
	Fixture Flux	2570lm	3	1.75	1043	
	Efficacy	69lm/W	4	2.33	587	
TS943	I _{max} =2119cd/klm	I _{max}	9385cd	5	2.92	375

Driver	Colour	3000K	4000K
EL.	●	1E2998EL	1E2999EL
1-10V	●	1E2998D	1E2999D
DALI	●	1E2998DA	1E2999DA

LED / 33W / REFLECTOR / MWFL



	3000K	H(m)	D(m)	E _{max} (lx)		
	Ra84		48°			
	Fixture Power	36W	1	0.89	5843	
	Source Flux	4434lm	2	1.78	1461	
	Fixture Flux	3703lm	3	2.68	649	
	Efficacy	104lm/W	4	3.57	365	
TS944	I _{max} =1366cd/klm	I _{max}	6055cd	5	4.46	234

Driver	Colour	3000K	4000K
EL.	●	1E3000EL	1E3001EL
1-10V	●	1E3000D	1E3001D
DALI	●	1E3000DA	1E3001DA

LED / 33W / REFLECTOR / WFL



	3000K	H(m)	D(m)	E _{max} (lx)		
	Ra84		62°			
	Fixture Power	36W	1	1.20	4420	
	Source Flux	4434lm	2	2.40	1105	
	Fixture Flux	3725lm	3	3.60	491	
	Efficacy	104lm/W	4	4.80	276	
TS945	I _{max} =997cd/klm	I _{max}	4420cd	5	5.99	177

Driver	Colour	3000K	4000K
EL.	●	1E3002EL	1E3003EL
1-10V	●	1E3002D	1E3003D
DALI	●	1E3002DA	1E3003DA

LED / 33W / ASYM



	3000K	H(m)	D1(m)	D2(m)	E _{max} (lx)		
	Ra84	113°	91°				
	Fixture Power	36W	1	3.02	4.08	1190	
	Source Flux	4434lm	2	6.04	8.15	298	
	Fixture Flux	3151lm	3	9.06	12.23	132	
	Efficacy	88lm/W	4	12.08	16.30	74	
TS946	I _{max} =504cd/klm	I _{max}	2236cd	5	15.10	20.38	48

Driver	Colour	3000K	4000K
EL.	●	1E3004EL	1E3005EL
1-10V	●	1E3004D	1E3005D
DALI	●	1E3004DA	1E3005DA

LED / 33W / NARROW ASYM

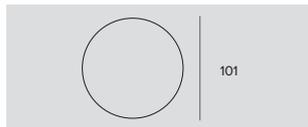


	3000K	H(m)	D1(m)	D2(m)	E _{max} (lx)		
	Ra84	41°	52°				
	Fixture Power	36W	1	1.20	1.25	2760	
	Source Flux	4514lm	2	2.41	2.49	690	
	Fixture Flux	3497lm	3	3.61	3.74	307	
	Efficacy	98lm/W	4	4.81	4.99	172	
TS1054	I _{max} =1098cd/klm	I _{max}	4956cd	5	6.02	6.24	110

Driver	Colour	3000K	4000K
EL.	●	1E3126EL	1E3127EL
1-10V	●	1E3126D	1E3127D
DALI	●	1E3126DA	1E3127DA

Accessories

Filter



Filter	Ø	Code
Red	101	1E3017
Green	101	1E3018
Blue	101	1E3019
Yellow	101	1E3020
Magenta	101	1E3021

Chromatic filter.

Glass with dichroic treatment.

Non suitable for the asymmetric reflector nor for grazing lighting.

To be completed with a dedicated holder ring.



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



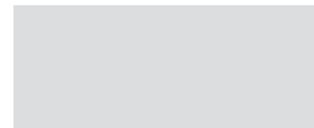
Code
1E3025

Anti-glare louver.

The central elements may be removed to obtain two different levels of glare control.

Powder coated stainless steel.

RAY Shade

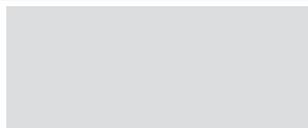


Code
1E3024

Asymmetric screen.

Powder coated stainless steel.

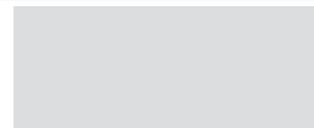
Mounting System



Code
1E3026

Plate for fixture rotation.

Powder coated stainless steel.

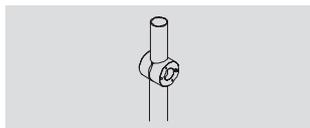


Ø	H	Code
96	182	1E3028

Earthspike.

Powder coated stainless steel.

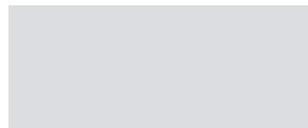
DART



Code

1E2825

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

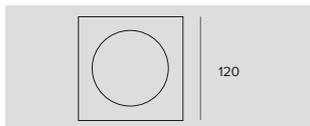


Code

1E3027

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

Holder Ring

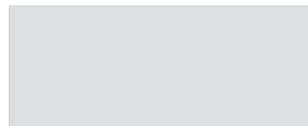


Code

1E3022

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

Tool

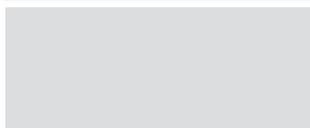


Code

1E3029

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

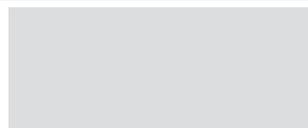
Connector



Code

1E2493

Connector for coaxial connection.
4 poles max. wire section 2.5mm².
Cable diameter range from 7 to 12mm.
IP68



Code

1E2494

Connector for coaxial connection.
1 IN - 3 OUT 4 poles max. wire section 2.5mm².
Cable diameter range from 8 to 12mm.
IP68



Code

1E3400

Connection kit for looping between fixtures.
IP68

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.



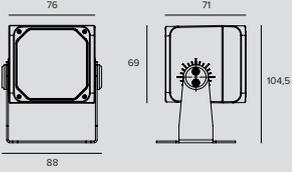
Code

1E3049

IP67 Extender for wireless control with DALI interfaces.
It generates a local DALI bus with the capacity to drive up to 64 fixtures and can control groups of fixtures in outdoor applications.
It prevents any change to the management features provided by the Casambi system.



Small Remote driver



LED / 3W / LENSES / NSP

		3000K	H(m)	D(m)	E _{max} (lx)	
900mA		Ra80		9°		
10000		Fixture Power	5W	1	0.15	4041
20000		Source Flux	200lm	2	0.30	1010
30°		Fixture Flux	151lm	3	0.46	449
		Efficacy	29lm/W	4	0.61	253
TS937	I _{max} =20203cd/klm	I _{max}	4041cd	5	0.76	162

Power supply	Colour	3000K	4000K
700/900mA	●	1E2986	1E2987

LED / 13W / LENSES / SP

		3000K	H(m)	D(m)	E _{max} (lx)	
3000		Ra84		17°		
6000		Fixture Power	17W	1	0.30	10569
12000		Source Flux	1803lm	2	0.61	2642
30°		Fixture Flux	1270lm	3	0.91	1174
		Efficacy	75lm/W	4	1.21	661
TS938	I _{max} =5862cd/klm	I _{max}	10569cd	5	1.52	423

Power supply	Colour	3000K	4000K
400mA	●	1E2988	1E2989

LED / 14W / LENSES / FL

		3000K	H(m)	D(m)	E _{max} (lx)	
1000		Ra84		32°		
2000		Fixture Power	15W	1	0.58	4071
30°		Source Flux	2034lm	2	1.15	1018
		Fixture Flux	1375lm	3	1.73	452
		Efficacy	89lm/W	4	2.31	254
TS939	I _{max} =2002cd/klm	I _{max}	4071cd	5	2.88	163

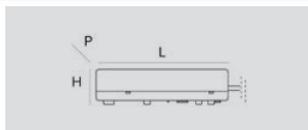
Power supply	Colour	3000K	4000K
400mA	●	1E2990	1E2991

LED / 14W / REFLECTOR / MWFL

		3000K	H(m)	D(m)	E _{max} (lx)	
600		Ra84		46°		
1200		Fixture Power	15W	1	0.85	2889
30°		Source Flux	2034lm	2	1.70	722
		Fixture Flux	1603lm	3	2.54	321
		Efficacy	104lm/W	4	3.39	181
TS940	I _{max} =1421cd/klm	I _{max}	2891cd	5	4.24	116

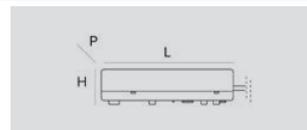
Power supply	Colour	3000K	4000K
400mA	●	1E2992	1E2993

Power Supply



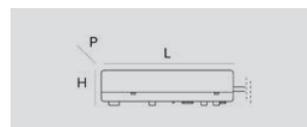
	Code
20W - 220-240Vac, 400mA - 118x22x52mm - IP20	1T4215EL
20W - 110-240Vac, 900mA - 118x22x52mm - IP20	1T5295EL
20W - 220-240Vac, 400mA - 150x40x148mm - IP68	1E3033EL
20W - 110-240Vac, 900mA - 150x40x148mm - IP68	1E3034EL

Electronic power supply
LxHxP



	Code
20W - 110-240Vac, 400mA - 118x22x52mm - IP20	1T4215D
20W - 110-240Vac, 900mA - 118x22x52mm - IP20	1T5295D
20W - 110-240Vac, 400mA - 150x40x148mm - IP68	1E3033D
20W - 110-240Vac, 900mA - 150x40x148mm - IP68	1E3034D

1-10V electronic power supply
LxHxP



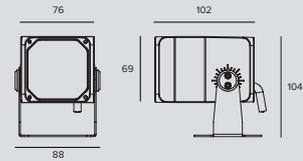
	Code
20W - 110-240Vac, 400mA - 118x22x52mm - IP20	1T4215DA
20W - 110-240Vac, 700mA - 118x22x52mm - IP20	1T5295DA
20W - 110-240Vac, 400mA - 150x40x148mm - IP68	1E3033DA
20W - 110-240Vac, 700mA - 150x40x148mm - IP68	1E3034DA

DALI electronic power supply
LxHxP

DART



Small Integrated driver



LED / 3W / LENSES / NSP



	3000K	H(m)	D(m)	E _{max} (lx)		
	Ra80		9°			
Fixture Power	5W	1	0.15	4041		
Source Flux	200lm	2	0.30	1010		
Fixture Flux	151lm	3	0.46	449		
Efficacy	29lm/W	4	0.61	253		
TS937	I _{max} =20203cd/klm	I _{max}	4041cd	5	0.76	162

Driver	Colour	3000K	4000K
EL.	●	1E3056EL	1E3057EL

LED / 11W / LENSES / SP



	3000K	H(m)	D(m)	E _{max} (lx)		
	Ra84		17°			
Fixture Power	15W	1	0.30	10469		
Source Flux	1786lm	2	0.61	2617		
Fixture Flux	1258lm	3	0.91	1163		
Efficacy	85lm/W	4	1.21	654		
TS938	I _{max} =5862cd/klm	I _{max}	10469cd	5	1.52	419

Driver	Colour	3000K	4000K
EL.	●	1E3058EL	1E3059EL

LED / 12W / LENSES / FL



	3000K	H(m)	D(m)	E _{max} (lx)		
	Ra84		32°			
Fixture Power	14W	1	0.58	3645		
Source Flux	1821lm	2	1.15	911		
Fixture Flux	1231lm	3	1.73	405		
Efficacy	91lm/W	4	2.31	228		
TS939	I _{max} =2002cd/klm	I _{max}	3645cd	5	2.88	146

Driver	Colour	3000K	4000K
EL.	●	1E3060EL	1E3061EL

LED / 12W / REFLECTOR / MWFL



	3000K	H(m)	D(m)	E _{max} (lx)		
	Ra84		46°			
Fixture Power	14W	1	0.85	2586		
Source Flux	1821lm	2	1.70	647		
Fixture Flux	1435lm	3	2.54	287		
Efficacy	106lm/W	4	3.39	162		
TS940	I _{max} =1421cd/klm	I _{max}	2588cd	5	4.24	103

Driver	Colour	3000K	4000K
EL.	●	1E3062EL	1E3063EL

DART

Accessories

Filter



Filter	Ø	Code
Red	53	1E3006
Green	53	1E3007
Blue	53	1E3008
Yellow	53	1E3009
Magenta	53	1E3010

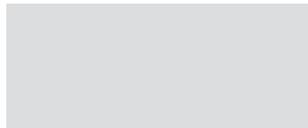
Chromatic filter.
Glass with dichroic treatment.
Non suitable for the asymmetric reflector nor for grazing lighting.
To be completed with a dedicated holder ring.



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.

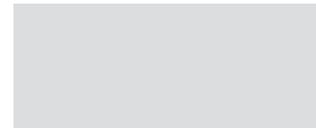
Grid



Code
1E3014

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

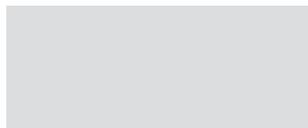
RAY Shade



Code
1E3013

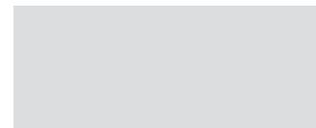
Asymmetric screen.
Powder coated stainless steel.

Mounting System



Code
1E3015

Plate for fixture rotation.
Powder coated stainless steel.



Code
1E3016

Earthspike.
Powder coated stainless steel.

Holder Ring



Code
1E3011

Holder ring.
Powder coated stainless steel.

Connector



Code

1E2493

Connector for coaxial connection.
4 poles max. wire section 2.5mm².
Cable diameter range from 7 to 12mm.
IP68



Code

1E2494

Connector for coaxial connection.
1 IN - 3 OUT 4 poles max. wire section 2.5mm².
Cable diameter range from 8 to 12mm.
IP68



Code

1E3400

Connection kit for looping between fixtures.
IP68

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.



Code

1E3049

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