

Projectors

RAY



TARGETTI

RAY

GENERAL INFO

Professional adjustable LED projector.
Adjustable from 0° to -90° in the vertical plane and 359° in the horizontal plane. Mechanical beam locking system on the vertical plane and graduated ring nut for beam locking on the horizontal plane (only for Ray Ø163mm).
Ray Ø163mm
Ray Mini Ø115mm
Ray Micro Ø89mm

LED

Chip on board
From 1949lm to 7232lm
3000K – 4000K
Ra80-Ra97

PRODUCT EFFICACY

Up to 125lm/W

OPTICS

SP – FL – MWFL - WFL

POWER SUPPLY


Electronic – DALI
DALI on request
(Ray Micro)


MATERIAL

Die-cast aluminium body painted. Front ring made of black ryton.

ON DEMAND

 Easy Custom Colour

 Ra97 (Ray Micro)

 110-277Vac
power supply
(Ray Mini)

A range of projectors characterised by an essential design and high performance. Clearly intended for the Retail environment, there are different sizes and different power supplies to satisfy size and performance requirements within the same project.

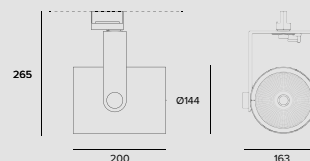
All versions have optics with reflectors to obtain soft, delicate tones on all beam openings.



Indoor



RAY



LED / 50W / REFLECTOR / FL / CRI80



	3000K	H(m)	D(m)	E _{max} (lx)		
	Ra80		24°			
	Fixture Power	54W	1	0.43	24335	
	Source Flux	7050lm	2	0.85	6084	
	Fixture Flux	5851lm	3	1.28	2704	
	Efficacy	109lm/W	4	1.70	1521	
	TS741	I _{max} =3452cd/klm	I _{max}	24335cd	5	2.13

Certificate	Driver	Colour	3000K	4000K
ENEC	EL.	○	1T3692	
ENEC	EL.	●	1T3693	
	EL.	○		1T5325
	EL.	●		1T5326
	DALI	○	1T3692DA	1T5325DA
	DALI	●	1T3693DA	1T5326DA

LED / 50W / REFLECTOR / FL / CRI97



	3000K	H(m)	D(m)	E _{max} (lx)		
	Ra97		24°			
	Fixture Power	54W	1	0.43	18729	
	Source Flux	5426lm	2	0.85	4682	
	Fixture Flux	4503lm	3	1.28	2081	
	Efficacy	84lm/W	4	1.70	1171	
	TS741	Imax=3452cd/klm	Imax	18729cd	5	2.13

Certificate	Driver	Colour	3000K	4000K
ENEC	EL.	○	1T4253	
ENEC	EL.	●	1T4254	
	EL.	○		1T5333
	EL.	●		1T5334
	DALI	○	1T4253DA	1T5333DA
	DALI	●	1T4254DA	1T5334DA

LED / 50W / REFLECTOR / WFL / CRI80



	3000K	H(m)	D(m)	E _{max} (lx)		
	Ra80		53°			
	Fixture Power	54W	1	0.99	9030	
	Source Flux	7050lm	2	1.97	2257	
	Fixture Flux	5781lm	3	2.96	1003	
	Efficacy	108lm/W	4	3.95	564	
	TS743	I _{max} =1284cd/klm	I _{max}	9049cd	5	4.93

Certificate	Driver	Colour	3000K	4000K
ENEC	EL.	○	1T3694	
ENEC	EL.	●	1T3695	
	EL.	○		1T5327
	EL.	●		1T5328
	DALI	○	1T3694DA	1T5327DA
	DALI	●	1T3695DA	1T5328DA

LED / 50W / REFLECTOR / WFL / CRI97



	3000K	H(m)	D(m)	E _{max} (lx)	
	Ra97		53°		
	Fixture Power	54W	1	0.99	6950
	Source Flux	5426lm	2	1.97	1737
	Fixture Flux	4449lm	3	2.96	772
	Efficacy	83lm/W	4	3.95	434
	TS743 I _{max} =1284cd/klm	I _{max}	6965cd	5	4.93

Certificate	Driver	Colour	3000K	4000K
ENEC	EL.	○	1T4255	
ENEC	EL.	●	1T4256	
	EL.	○		1T5335
	EL.	●		1T5336
	DALI	○	1T4255DA	1T5335DA
	DALI	●	1T4256DA	1T5336DA

RAY

Accessories

Screen



Code

1T6523

Protective screen.

Grid



Code

1T6918

Anti-glare louver.
Black painted metal honeycomb structure.

Control systems

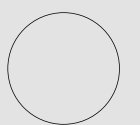


Code

1T5352

IP20 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 indoor applications via the Casambi application.
It is also equipped with a relay that can control non-dimmable fixtures up to a maximum of 6A.
LxHxP=129x30x42mm.

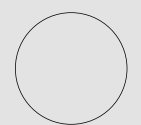
Adapter



Ø100
H32

Ø	H	Driver	Colour	Code
100	32	EL.	○	1T2221
100	32	EL.	●	1T2220
100	32	EL.	●	1T2219

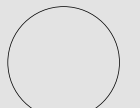
Base for ceiling installation of projectors with an adapter for electrified track.



Ø118
H38

Ø	H	Driver	Colour	Code
118	38	DALI	○	9000/BPU-D-W
118	38	DALI	●	9000/BPU-D-B
118	38	DALI	●	9000/BPU-D-G

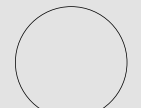
Base for ceiling installation of projectors with an adapter for electrified track.



Ø144
H67

Cutout hole	Ø	H	Driver	Colour	Code
Ø125/130	144	67	DALI	○	9000/BRU-W
Ø125/130	144	67	DALI	●	9000/BRU-B
Ø125/130	144	67	DALI	●	9000/BRU-G

Adapter for recessed installation of the base.
9000/BRU-W - To be completed with 9000/BPU-D-W.
9000/BRU-B - To be completed with 9000/BPU-D-B.
9000/BRU-G - To be completed with 9000/BPU-D-G.



Ø130
H60

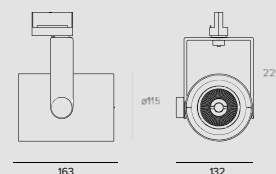
Cutout hole	Ø	H	Driver	Colour	Code
Ø105/125	130	60	EL.	○	1T2223
Ø105/125	130	60	EL.	●	1T2222
Ø105/125	130	60	EL.	●	1T2224

Adapter for recessed installation of the base.
1T2223 - To be completed with 1T2221.
1T2222 - To be completed with 1T2220.
1T2224 - To be completed with 1T2219.

RAY



Mini



LED / 30W / REFLECTOR / SP / CRI80



	3000K	H(m)	D(m)	E _{max} (lx)		
	Ra80		14°			
	Fixture Power	32W	1	0.24	33623	
	Source Flux	4141lm	2	0.48	8406	
	Fixture Flux	3490lm	3	0.72	3736	
	Efficacy	110lm/W	4	0.96	2101	
	TS832	I _{max} =8119cd/klm	I _{max}	33623cd	5	1.20

Certificate	Driver	Colour	3000K	4000K
ENEC	EL.	○	1T4201	
ENEC	EL.	●	1T4197	
	EL.	○		1T5340
	EL.	●		1T5337
	DALI	○	1T4201DA	1T5340DA
	DALI	●	1T4197DA	1T5337DA

LED / 30W / REFLECTOR / SP / CRI97



	3000K	H(m)	D(m)	E _{max} (lx)		
	Ra97		14°			
	Fixture Power	32W	1	0.24	25276	
	Source Flux	3113lm	2	0.48	6319	
	Fixture Flux	2646lm	3	0.72	2808	
	Efficacy	83lm/W	4	0.96	1580	
	TS832	I _{max} =8119cd/klm	I _{max}	25276cd	5	1.20

Certificate	Driver	Colour	3000K	4000K
ENEC	EL.	○	1T4260	
ENEC	EL.	●	1T4257	
	EL.	○		1T5346
	EL.	●		1T5343
	DALI	○	1T4260DA	1T5346DA
	DALI	●	1T4257DA	1T5343DA

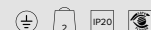
LED / 30W / REFLECTOR / FL / CRI80



	3000K	H(m)	D(m)	Emax(lx)		
	Ra80		25°			
	Fixture Power	32W	1	0.44	14085	
	Source Flux	4141lm	2	0.88	3521	
	Fixture Flux	3505lm	3	1.32	1565	
	Efficacy	110lm/W	4	1.76	880	
	TS833	I _{max} =3401cd/klm	I _{max}	14085cd	5	2.20

Certificate	Driver	Colour	3000K	4000K
ENEC	EL.	○	1T4202	
ENEC	EL.	●	1T4198	
	EL.	○		1T5341
	EL.	●		1T5338
	DALI	○	1T4202DA	1T5341DA
	DALI	●	1T4198DA	1T5338DA

LED / 30W / REFLECTOR / FL / CRI97



	3000K	H(m)	D(m)	E _{max} (lx)		
	Ra97		25°			
	Fixture Power	32W	1	0.44	10588	
	Source Flux	3113lm	2	0.88	2647	
	Fixture Flux	2635lm	3	1.32	1176	
	Efficacy	83lm/W	4	1.76	662	
	TS833	I _{max} =3401cd/klm	I _{max}	10588cd	5	2.20

Certificate	Driver	Colour	3000K	4000K
ENEC	EL.	○	1T4261	
ENEC	EL.	●	1T4258	
	EL.	○		1T5347
	EL.	●		1T5344
	DALI	○	1T4261DA	1T5347DA
	DALI	●	1T4258DA	1T5344DA

LED / 30W / REFLECTOR / MWFL / CRI80



	3000K	H(m)	D(m)	E _{max} (lx)		
	Ra80		45°			
	Fixture Power	32W	1	0.84	6295	
	Source Flux	4141lm	2	1.67	1574	
	Fixture Flux	3598lm	3	2.51	699	
	Efficacy	113lm/W	4	3.35	393	
	TS834	I _{max} =1528cd/klm	I _{max}	6327cd	5	4.18

Certificate	Driver	Colour	3000K	4000K
ENEC	EL.	○	1T4203	
ENEC	EL.	●	1T4199	
	EL.	○		1T5342
	EL.	●		1T5339
	DALI	○	1T4203DA	1T5342DA
	DALI	●	1T4199DA	1T5339DA

Indoor

LED / 30W / REFLECTOR / MWFL / CRI97

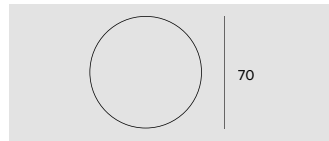


	3000K	H(m)	D(m)	E _{max} (lx)
Ra97			45°	
Fixture Power	32W	1	0.84	4733
Source Flux	3113lm	2	1.67	1183
Fixture Flux	2705lm	3	2.51	526
Efficacy	85lm/W	4	3.35	296
TS834	I _{max} =1528cd/klm	5	4.18	189

Certificate	Driver	Colour	3000K	4000K
ENEC	EL.	○	1T4262	
ENEC	EL.	●	1T4259	
	DALI	○	1T4262DA	1T5348DA
	DALI	●	1T4259DA	1T5345DA
	EL.	○		1T5348
	EL.	●		1T5345

Accessories

Filter



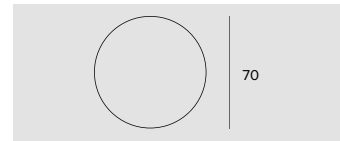
Ø Code

70 **1T1708**

Flat striped glass blade light refractive filter.

This makes the beam take on an oval shape and when combined with spotlights, the light blade appears more prominent.

To be completed with an additional holder ring for Cloud, Ray Mini, Store, Label 9, CCTEVO Extractable 162 and Keplero Mini HE.



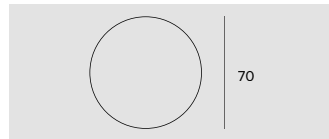
Ø Code

70 **1T1709**

Flat glass wired refractive diffusive filter.

This softens the luminous effect.

To be completed with an additional holder ring for Cloud, Ray Mini, Store, Label 9 and CCTEVO Extractable 162.



Filter Ø Code

Halogen + 70 **1T6506**

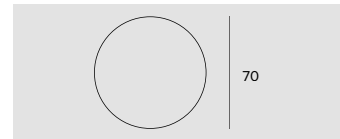
Vivid + 70 **1T6507**

Art filter.

Flat glass interference filter that can vary the colour parameters of the emission of the fixtures it is applied to.

To be used only with 3000K and Ra80 fixtures.

To be completed with an additional holder ring for Cloud, Ray Mini, Store, Label 9.



Filter Ø Code

Meat 70 **1T6508**

Fish 70 **1T6509**

Bread 70 **1T6510**

Vegetables 70 **1T6511**

Food filter.

Flat glass interference filter that can vary the colour parameters of the emission of the fixtures it is applied to.

To be completed with an additional holder ring for Cloud, Ray Mini, Store, Label 9.

1T6508 - To be used only with 3000K and Ra80 fixtures.

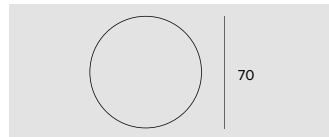
1T6509 - To be used only with 4000K and Ra80 fixtures.

1T6510 - To be used only with 3000K and Ra80 fixtures.

1T6511 - To be used only with 3000K and Ra80 fixtures.

Note

A minimum order quantity is required for interference filters. Please, refer to the Company for more information.



Filter Ø Code

Beauty 70 **1T6512**

Beauty filter.

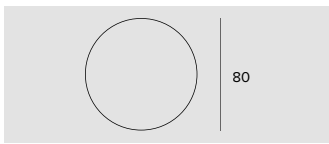
Flat glass interference filter that can vary the colour parameters of the emission of the fixtures it is applied to.

To be used only with 3000K and Ra80 fixtures.

To be completed with an additional holder ring for Cloud, Ray Mini, Store, Label 9.

RAY

Screen

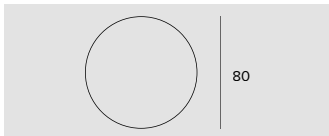


Ø Code

80 1T6522

Protective screen.

Zoom

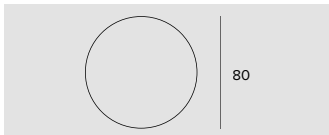


Ø Code

80 1T3432

Zoom.
Optical system consists of an optical glass flat convex lens, an anodized aluminium specular reflector and a diffusive holographic filter.
To be used after removing the existing optic.
It makes it possible to obtain a variable beam from 13° to 42°.
It can not be used with NSP and hybrid optics; no for DBS version.

Screen

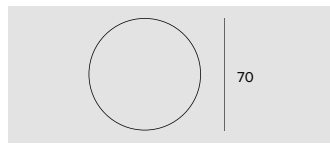


Ø Code

80 1T3143

Black painted anodized diffusive aluminium asymmetric screen.
Complete with blade light filter.
Ideal for a Wall Washer effect.
To be combined with spot and flood optics.

Grid

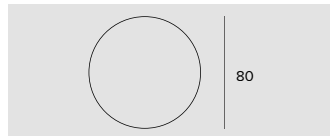


Ø Code

70 1T1711

Anti-glare louver.
Black painted metal honeycomb structure.
To be completed with an additional holder ring for Cloud, Ray Mini, Store, Label 9, CCTEVO Extractable 162 and Keplero Mini HE.

Cut-off



Ø Code

80 1T3142

Cut-off Tube.
Allows for the beam to be focused while removing the fall-off component.
No for DBS version.

Holder Ring

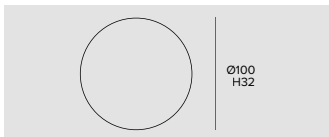


Code

1T3727

Transparent polycarbonate accessory holder ring.

Adapter



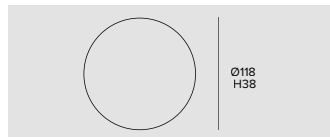
Ø H Driver Colour Code

100 32 EL.  1T2221


100 32 EL.  1T2220


100 32 EL.  1T2219


Base for ceiling installation of projectors with an adapter for electrified track.



Ø H Driver Colour Code

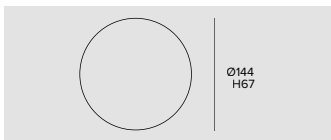
118 38 DALI  9000/BPU-D-W

118 38 DALI  9000/BPU-D-B

118 38 DALI  9000/BPU-D-G

Base for ceiling installation of projectors with an adapter for electrified track.

RAY



Cutout hole	Ø	H	Driver	Colour	Code
Ø125/130	144	67	DALI	○	9000/BRU-W
Ø125/130	144	67	DALI	●	9000/BRU-B
Ø125/130	144	67	DALI	●	9000/BRU-G

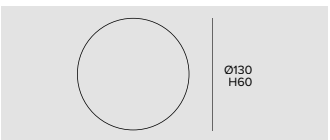
Adapter for recessed installation of the base.
9000/BRU-W - To be completed with 9000/BPU-D-W.
9000/BRU-B - To be completed with 9000/BPU-D-B.
9000/BRU-G - To be completed with 9000/BPU-D-G.

Control systems



Code
1T5352

IP20 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 indoor applications via the Casambi application.
It is also equipped with a relay that can control non-dimmable fixtures up to a maximum of 6A.
LxHxP=129x30x42mm.

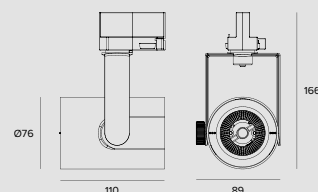


Cutout hole	Ø	H	Driver	Colour	Code
Ø105/125	130	60	EL.	○	1T2223
Ø105/125	130	60	EL.	●	1T2222
Ø105/125	130	60	EL.	●	1T2224

Adapter for recessed installation of the base.
1T2223 - To be completed with 1T2221.
1T2222 - To be completed with 1T2220.
1T2224 - To be completed with 1T2219.



Micro



LED / 12W / REFLECTOR / SP



	3000K	H(m)	D(m)	E _{max} (lx)		
	Ra80		17°			
	Fixture Power	13W	1	0.30	9777	
	Source Flux	1949lm	2	0.59	2444	
	Fixture Flux	1501lm	3	0.89	1086	
	Efficacy	113lm/W	4	1.19	611	
	TS989	I _{max} =5017cd/klm	I _{max}	9777cd	5	1.48

Driver	Colour	3000K	4000K
EL.	○	1T6317	1T6319
EL.	●	1T6318	1T6320

LED / 12W / REFLECTOR / MWFL



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Driver	Colour	3000K	4000K
EL.	○	1T6321	1T6323
EL.	●	1T6322	1T6324

Note

DALI on request.

Accessories

Filter

		Ø	Code
	50		1T4721

PMMA holographic filter with blade effect to ovalize the light beam; more evident when combined with spot and flood optics.

		Filter	Ø	Code
		Halogen +	50	1T6381
		Vivid +	50	1T6383

Art filter.

Flat glass interference filter that can vary the colour parameters of the emission of the fixtures it is applied to.

To be used only with 3000K and Ra80 fixtures.

		Filter	Ø	Code
		Meat	50	1T6385
		Fish	50	1T6387
		Bread	50	1T6389
		Vegetables	50	1T6391

Food filter.

Flat glass interference filter that can vary the colour parameters of the emission of the fixtures it is applied to.

1T6385 - To be used only with 3000K and Ra80 fixtures.

1T6387 - To be used only with 4000K and Ra80 fixtures.

1T6389 - To be used only with 3000K and Ra80 fixtures.

1T6391 - To be used only with 3000K and Ra80 fixtures.

		Filter	Ø	Code
		Beauty	50	1T6393

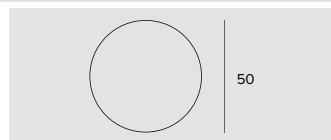
Beauty filter.

Flat glass interference filter that can vary the colour parameters of the emission of the fixtures it is applied to.

To be used only with 3000K and Ra80 fixtures.

RAY

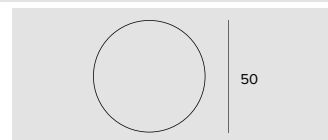
Screen



Ø Code

50 **1T6521**

Protective screen.

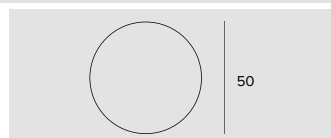


Ø Code

50 **1T4325**

Black painted anodized diffusive aluminium asymmetric screen.
Complete with blade light filter.
Ideal for a Wall Washer effect.
To be combined with spot and flood optics.

Grid

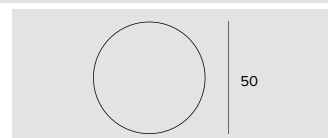


Ø Code

50 **1T4322**

Anti-glare louver.
Black painted metal honeycomb structure.
Complete with holographic diffusion filter.

Zoom

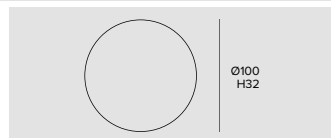


Ø Code

50 **1T4324**

Zoom.
Optical system consists of an optical glass flat convex lens, an anodized aluminium specular reflector and a diffusive holographic filter.
To be used after removing the existing optic.
It can not be used with a narrow spot optic.
It makes it possible to obtain a variable beam from 15° to 60°.

Adapter



Ø100
H32

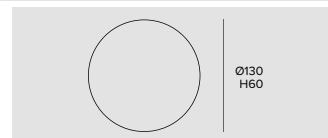
Ø H Driver Colour Code

100 32 EL. **1T2221**

100 32 EL. **1T2220**

100 32 EL. **1T2219**

Base for ceiling installation of projectors with an adapter for electrified track.



Ø130
H60

Cutout hole Ø H Driver Colour Code

Ø105/125 130 60 EL. **1T2223**

Ø105/125 130 60 EL. **1T2222**

Ø105/125 130 60 EL. **1T2224**

Adapter for recessed installation of the base.
1T2223 - To be completed with 1T2221.
1T2222 - To be completed with 1T2220.
1T2224 - To be completed with 1T2219.

Note

A minimum order quantity is required for interference filters. Please, refer to the Company for more information.

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.



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.

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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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.

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.
	Class III luminaire, suitable for connection to very low voltage circuits.
	Solid particle and liquid ingress protection degree.
	Protection degree - Recessed part . Protection degree - Exposed part.
	Impact protection degree.
	ENEC European Norms Electrical Certification.

Particular symbols

	Weight of the single fixture.
	Cable length.
	Walk-over.
	Driver-over safe.
	Fixtures that have parameters below the minimum visibility threshold $PstLM \leq 1$ and $SVM \leq 0.4$ (IEC TR 61547-1 and IEC TR 63158).
DBS	Dynamic Beam Shaper optical technology with remote management of the beam opening.
	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".

