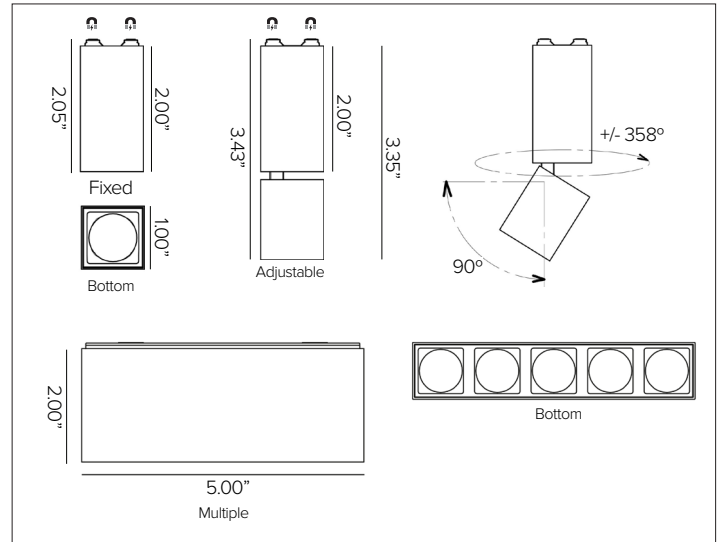
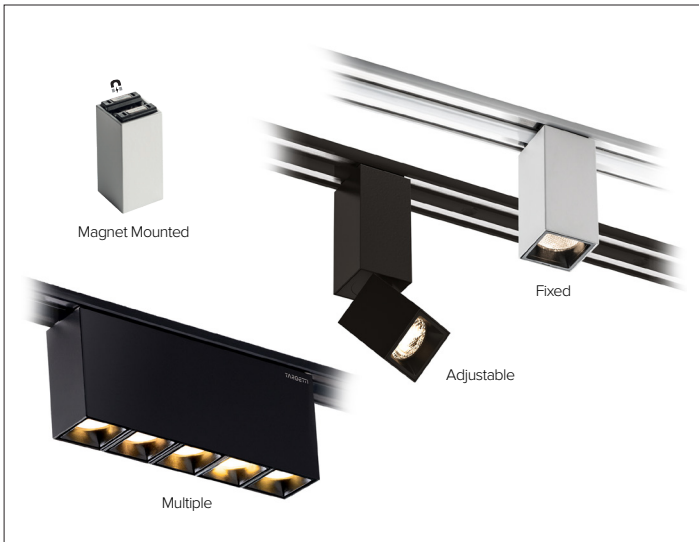


OZ 48V SMALL

Magnet Mounted Modular Light System



CONCEPT

Professional magnet mounted low voltage modular light system allowing for maximum application flexibility.

MECHANICAL CHARACTERISTICS

Dimensions	1"W nominal luminaire profile range.
Materials	Die cast aluminum finished body. Front internal reflector in black finish polycarbonate.
Finish	<input type="radio"/> Plaster White <input checked="" type="radio"/> Deep Black
Power Connection	Magnetized electrical non-polarized coupling system.
Functionality	The adjustable luminaire version utilizes a mechanical aim lock friction system and is tiltable +/-90° vertically and rotatable +/- 358° horizontally.
Mounting	Simple magnetized coupling system that mounts directly to OZ 48V TRACK . Provides an easy installation for fixture field mounting and reconfigurations. This modular system meets seismic requirements; no extra security is required.
Weight	Fixed: 0.11lbs / Adjustable: 0.16lbs / Multiple: 0.28lbs
Protection	IP20

CERTIFICATIONS

cULus Class 2 Listed E528452
 Tested in accordance with LM-79-08.
 Compliant with California energy regulations.
 RoHS3 EU 215/863

WARRANTY

5 year limited warranty.

SUSTAINABILITY

Luminaire designed for disposal/recycling at end-of-life. Replaceable LED light source and control gear by a Targetti technician.

ELECTRICAL CHARACTERISTICS

Power Supply	Remote power supply options available.
Wattage	Fixed and Adjustable: 3W nominal / Multiple: 10W nominal
Voltage	48V
Control	0-10V dimmable through remote power / digital dimming interface for group fixture control OR wireless bluetooth control through Casambi app interface for individual fixture and/or optical DBS beam control. Refer to Targetti LMS (Light Management System) for detailed information.

SOURCE

High efficiency LED emitter.

TM30	CCT (Nominal)	CRI	Rf	Rg	SDCM
	2700K	90	876	103.9	2
	3000K	90	89.3	104.3	2
	3500K	90	91.4	103.9	2
	4000K	90	90.9	101.1	2

OPTIC

Optical system dependent on beam angle. SP version comprised of acrylic collimating lens with integrated holographic filter. FL and MWFL versions comprised of acrylic lens. [DBS](#) optic comprised of a specular anodized aluminum reflector, a Lens Vector liquid crystal glass lenses that are electronically controlled to regulate light diffusion and the beam opening from SP to MWFL with holographic filter.

Beam	SP 11°	FL 28°	MWFL 41°	DBS 16°-35°
Delivered Lumens	2700K 146Lm	140Lm	135Lm	148-166Lm
	3000K 154Lm	148Lm	142Lm	156-175Lm
	3500K 158Lm	152Lm	147Lm	161-180Lm
	4000K 165Lm	159Lm	153Lm	169-189Lm
Efficacy	68 Lm/W max. Refer to photometric graphs for specific values.			
Lifetime	L80/B10 >60,000hrs at max TA +25°C			
Photobiological Classification	Low risk photobiological safety RG1			

OZ 48V SMALL

SPECIFICATION INFORMATION



Ex: OZ11FPWL4FL30

1 - PRODUCT CODE	2 - TYPE	3 - CONTROL	4 - FINISH	5 - WATTAGE	6 - OPTICS	7 - KELVIN
OZ —OZ 48V	11F^A — Small 1" X 1" Fixed	— 0-10V Digital Dim	PW — Plaster White	L1 — 3W	SP — SP 11°	27 — 2700K
	11A^A — Small 1" X 1" Adjustable		DB — Deep Black		FL — FL 28°	30 — 3000K
	15M^B — Small 1" X 5" Fixed Multiple		RAL — Custom RAL	L3 — 10W	MW — MWFL 41°	35 — 3500K
OZ —OZ 48V	11FC^A — Small 1" X 1" Fixed Wireless	C — Casambi Wireless Bluetooth	PW — Plaster White	L4 — 3W	SP — SP 11°	27 — 2700K
	11AC^A — Small 1" X 1" Adjustable Wireless		DB — Deep Black		FL — FL 28°	30 — 3000K
	15MC^B — Small 1" X 5" Fixed Multiple Wireless		RAL — Custom RAL	L5 — 10W	MW — MWFL 41°	35 — 3500K

8 - RAIL & DRIVER	9 - PROFILE
<p>REQUIRED</p> <p>See OZ 48V POWER RAIL spec sheet for specification information.</p>	<p>OPTIONAL</p> <p>See OZ 48V PROFILE spec sheets for specification information. SURFACE/ SUSPENSION or RECESSED.</p>

^A Fixed and Adjustable versions available in 3W only.

^B Multiple version available in 10W only.

^C DBS optic available in Fixed and Adjustable fixtures with Casambi Wireless Bluetooth control, 3W only.

OZ 48V SMALL

PHOTOMETRY

SPOT



2700K		H(m)	D(m)	Emax(lx)
Ra90			11°	
Fixture Power	3W	1	0.20	2377
Source Flux	187lm	2	0.40	594
Fixture Flux	146lm	3	0.60	264
Efficacy	52lm/W	4	0.79	149
TS 1122	Imax=12713cd/klm	Imax	2377cd	95

Maximum UGR = 1.0 (based on actual lumens)



3500K		H(m)	D(m)	Emax(lx)
Ra90			11°	
Fixture Power	3W	1	0.20	2581
Source Flux	203lm	2	0.40	645
Fixture Flux	158lm	3	0.60	287
Efficacy	57lm/W	4	0.79	161
TS 1122	Imax=12713cd/klm	Imax	2581cd	103

Maximum UGR = 1.3 (based on actual lumens)



3000K		H(m)	D(m)	Emax(lx)
Ra90			11°	
Fixture Power	3W	1	0.20	2505
Source Flux	197lm	2	0.40	626
Fixture Flux	154lm	3	0.60	278
Efficacy	55lm/W	4	0.79	157
TS 1122	Imax=12713cd/klm	Imax	2505cd	100

Maximum UGR = 1.2 (based on actual lumens)



4000K		H(m)	D(m)	Emax(lx)
Ra90			11°	
Fixture Power	3W	1	0.20	2695
Source Flux	212lm	2	0.40	674
Fixture Flux	165lm	3	0.60	299
Efficacy	59lm/W	4	0.79	168
TS 1122	Imax=12713cd/klm	Imax	2695cd	108

Maximum UGR = 1.4 (based on actual lumens)

FLOOD



2700K		H(m)	D(m)	Emax(lx)
Ra90			28°	
Fixture Power	3W	1	0.51	472
Source Flux	187lm	2	1.01	118
Fixture Flux	140lm	3	1.52	52
Efficacy	50lm/W	4	2.02	30
TS 1123	Imax=2525cd/klm	Imax	472cd	19

Maximum UGR = 7.4 (based on actual lumens)



3500K		H(m)	D(m)	Emax(lx)
Ra90			28°	
Fixture Power	3W	1	0.51	513
Source Flux	203lm	2	1.01	128
Fixture Flux	152lm	3	1.52	57
Efficacy	54lm/W	4	2.02	32
TS 1123	Imax=2525cd/klm	Imax	513cd	21

Maximum UGR = 7.7 (based on actual lumens)



3000K		H(m)	D(m)	Emax(lx)
Ra90			28°	
Fixture Power	3W	1	0.51	497
Source Flux	197lm	2	1.01	124
Fixture Flux	148lm	3	1.52	55
Efficacy	53lm/W	4	2.02	31
TS 1123	Imax=2525cd/klm	Imax	497cd	20

Maximum UGR = 7.6 (based on actual lumens)



4000K		H(m)	D(m)	Emax(lx)
Ra90			28°	
Fixture Power	3W	1	0.51	535
Source Flux	212lm	2	1.01	134
Fixture Flux	159lm	3	1.52	59
Efficacy	57lm/W	4	2.02	33
TS 1123	Imax=2525cd/klm	Imax	535cd	21

Maximum UGR = 7.8 (based on actual lumens)

OZ 48V SMALL

PHOTOMETRY

MEDIUM WIDE FLOOD



		2700K	H(m)	D(m)	Emax(lx)
		Ra90		41°	
Fixture Power	3W	1	0.75	243	
Source Flux	187lm	2	1.50	61	
Fixture Flux	135lm	3	2.26	27	
Efficacy	48lm/W	4	3.01	15	
TS 1124	I _{max} =1300cd/klm	I _{max}	243cd	5	3.76

Maximum UGR = 11.7 (based on actual lumens)



		3000K	H(m)	D(m)	Emax(lx)
		Ra90		41°	
Fixture Power	3W	1	0.75	256	
Source Flux	197lm	2	1.50	64	
Fixture Flux	142lm	3	2.26	28	
Efficacy	51lm/W	4	3.01	16	
TS 1124	I _{max} =1300cd/klm	I _{max}	256cd	5	3.76

Maximum UGR = 11.9 (based on actual lumens)



		3500K	H(m)	D(m)	Emax(lx)
		Ra90		41°	
Fixture Power	3W	1	0.75	264	
Source Flux	203lm	2	1.50	66	
Fixture Flux	147lm	3	2.26	29	
Efficacy	52lm/W	4	3.01	16	
TS 1124	I _{max} =1300cd/klm	I _{max}	264cd	5	3.76

Maximum UGR = 12.0 (based on actual lumens)



		4000K	H(m)	D(m)	Emax(lx)
		Ra90		41°	
Fixture Power	3W	1	0.75	276	
Source Flux	212lm	2	1.50	69	
Fixture Flux	153lm	3	2.26	31	
Efficacy	55lm/W	4	3.01	17	
TS 1124	I _{max} =1300cd/klm	I _{max}	276cd	5	3.76

Maximum UGR = 12.1 (based on actual lumens)

DBS - SPOT



		2700K	H(m)	D(m)	Emax(lx)
		Ra90		16°	
Fixture Power	3W	1	0.28	1598	
Source Flux	224lm	2	0.56	400	
Fixture Flux	166lm	3	0.84	178	
Efficacy	59lm/W	4	1.12	100	
TS1283	I _{max} =7134cd/klm	I _{max}	1598cd	5	1.40

Maximum UGR = 18.6 (based on actual lumens)



		3000K	H(m)	D(m)	Emax(lx)
		Ra90		16°	
Fixture Power	3W	1	0.28	1684	
Source Flux	236lm	2	0.56	421	
Fixture Flux	175lm	3	0.84	187	
Efficacy	63lm/W	4	1.12	105	
TS1283	I _{max} =7134cd/klm	I _{max}	1684cd	5	1.40

Maximum UGR = 18.8 (based on actual lumens)



		3500K	H(m)	D(m)	Emax(lx)
		Ra90		16°	
Fixture Power	3W	1	0.28	1734	
Source Flux	243lm	2	0.56	433	
Fixture Flux	180lm	3	0.84	193	
Efficacy	64lm/W	4	1.12	108	
TS1283	I _{max} =7134cd/klm	I _{max}	1734cd	5	1.40

Maximum UGR = 18.9 (based on actual lumens)



		4000K	H(m)	D(m)	Emax(lx)
		Ra90		16°	
Fixture Power	3W	1	0.28	1819	
Source Flux	255lm	2	0.56	455	
Fixture Flux	189lm	3	0.84	202	
Efficacy	68lm/W	4	1.12	114	
TS1283	I _{max} =7134cd/klm	I _{max}	1819cd	5	1.40

Maximum UGR = 19.1 (based on actual lumens)

OZ 48V SMALL

PHOTOMETRY

DBS - MEDIUM WIDE FLOOD



		2700K	H(m)	D(m)	Emax(lx)	
		Ra90		35°		
Fixture Power	3W	1	0.62	268		
Source Flux	224lm	2	1.24	67		
Fixture Flux	148lm	3	1.86	30		
Efficacy	53lm/W	4	2.49	17		
TS1284	Imax=1198cd/klm	Imax	268cd	5	3.11	11

Maximum UGR = 19.7 (based on actual lumens)



		3000K	H(m)	D(m)	Emax(lx)	
		Ra90		35°		
Fixture Power	3W	1	0.62	283		
Source Flux	236lm	2	1.24	71		
Fixture Flux	156lm	3	1.86	31		
Efficacy	56lm/W	4	2.49	18		
TS1284	Imax=1198cd/klm	Imax	283cd	5	3.11	11

Maximum UGR = 19.9 (based on actual lumens)



		3500K	H(m)	D(m)	Emax(lx)	
		Ra90		35°		
Fixture Power	3W	1	0.62	291		
Source Flux	243lm	2	1.24	73		
Fixture Flux	161lm	3	1.86	32		
Efficacy	57lm/W	4	2.49	18		
TS1284	Imax=1198cd/klm	Imax	291cd	5	3.11	12

Maximum UGR = 20.0 (based on actual lumens)



		4000K	H(m)	D(m)	Emax(lx)	
		Ra90		35°		
Fixture Power	3W	1	0.62	306		
Source Flux	255lm	2	1.24	76		
Fixture Flux	169lm	3	1.86	34		
Efficacy	60lm/W	4	2.49	19		
TS1284	Imax=1198cd/klm	Imax	306cd	5	3.11	12

Maximum UGR = 20.2 (based on actual lumens)

SPOT (MULTIPLE)



		2700K	H(m)	D(m)	Emax(lx)	
		Ra90		11°		
Fixture Power	10W	1	0.20	9510		
Source Flux	748lm	2	0.40	2377		
Fixture Flux	584lm	3	0.60	1057		
Efficacy	60lm/W	4	0.79	594		
TS1122	Imax=12713cd/klm	Imax	9510cd	5	0.99	380

Maximum UGR = 0.2 (based on actual lumens)



		3000K	H(m)	D(m)	Emax(lx)	
		Ra90		11°		
Fixture Power	10W	1	0.20	10018		
Source Flux	788lm	2	0.40	2505		
Fixture Flux	615lm	3	0.60	1113		
Efficacy	63lm/W	4	0.79	626		
TS1122	Imax=12713cd/klm	Imax	10018cd	5	0.99	401

Maximum UGR = 0.4 (based on actual lumens)



		3500K	H(m)	D(m)	Emax(lx)	
		Ra90		11°		
Fixture Power	10W	1	0.20	10323		
Source Flux	812lm	2	0.40	2581		
Fixture Flux	633lm	3	0.60	1147		
Efficacy	65lm/W	4	0.79	645		
TS1122	Imax=12713cd/klm	Imax	10323cd	5	0.99	413

Maximum UGR = 0.5 (based on actual lumens)



		4000K	H(m)	D(m)	Emax(lx)	
		Ra90		11°		
Fixture Power	10W	1	0.20	10781		
Source Flux	848lm	2	0.40	2695		
Fixture Flux	662lm	3	0.60	1198		
Efficacy	68lm/W	4	0.79	674		
TS1122	Imax=12713cd/klm	Imax	10781cd	5	0.99	431

Maximum UGR = 0.6 (based on actual lumens)

OZ 48V SMALL

PHOTOMETRY

FLOOD (MULTIPLE)



		2700K	H(m)	D(m)	Emax(lx)
		Ra90		28°	
Fixture Power	10W	1	0.51	1889	
Source Flux	748lm	2	1.01	472	
Fixture Flux	560lm	3	1.52	210	
Efficacy	58lm/W	4	2.02	118	
TS1123	Imax=2525cd/klm	Imax	1889cd	5	2.53

Maximum UGR = 6.6 (based on actual lumens)



		3000K	H(m)	D(m)	Emax(lx)
		Ra90		28°	
Fixture Power	10W	1	0.51	1990	
Source Flux	788lm	2	1.01	497	
Fixture Flux	590lm	3	1.52	221	
Efficacy	61lm/W	4	2.02	124	
TS1123	Imax=2525cd/klm	Imax	1990cd	5	2.53

Maximum UGR = 6.8 (based on actual lumens)



		3500K	H(m)	D(m)	Emax(lx)
		Ra90		28°	
Fixture Power	10W	1	0.51	2051	
Source Flux	812lm	2	1.01	513	
Fixture Flux	608lm	3	1.52	228	
Efficacy	63lm/W	4	2.02	128	
TS1123	Imax=2525cd/klm	Imax	2051cd	5	2.53

Maximum UGR = 6.9 (based on actual lumens)



		4000K	H(m)	D(m)	Emax(lx)
		Ra90		28°	
Fixture Power	10W	1	0.51	2141	
Source Flux	848lm	2	1.01	535	
Fixture Flux	635lm	3	1.52	238	
Efficacy	65lm/W	4	2.02	134	
TS1123	Imax=2525cd/klm	Imax	2141cd	5	2.53

Maximum UGR = 7.0 (based on actual lumens)

MEDIUM WIDE FLOOD (MULTIPLE)



		2700K	H(m)	D(m)	Emax(lx)
		Ra90		41°	
Fixture Power	10W	1	0.75	972	
Source Flux	748lm	2	1.50	243	
Fixture Flux	540lm	3	2.26	108	
Efficacy	56lm/W	4	3.01	61	
TS1124	Imax=1300cd/klm	Imax	972cd	5	3.76

Maximum UGR = 10.9 (based on actual lumens)



		3000K	H(m)	D(m)	Emax(lx)
		Ra90		41°	
Fixture Power	10W	1	0.75	1024	
Source Flux	788lm	2	1.50	256	
Fixture Flux	569lm	3	2.26	114	
Efficacy	59lm/W	4	3.01	64	
TS1124	Imax=1300cd/klm	Imax	1024cd	5	3.76

Maximum UGR = 11.1 (based on actual lumens)



		3500K	H(m)	D(m)	Emax(lx)
		Ra90		41°	
Fixture Power	10W	1	0.75	1055	
Source Flux	812lm	2	1.50	264	
Fixture Flux	586lm	3	2.26	117	
Efficacy	60lm/W	4	3.01	66	
TS1124	Imax=1300cd/klm	Imax	1055cd	5	3.76

Maximum UGR = 11.2 (based on actual lumens)



		4000K	H(m)	D(m)	Emax(lx)
		Ra90		41°	
Fixture Power	10W	1	0.75	1102	
Source Flux	848lm	2	1.50	276	
Fixture Flux	612lm	3	2.26	122	
Efficacy	63lm/W	4	3.01	69	
TS1124	Imax=1300cd/klm	Imax	1102cd	5	3.76

Maximum UGR = 11.3 (based on actual lumens)

OZ 48V SMALL

CONTROL SYSTEM

Controlling light has never been easier. Targetti [LMS \(Light Management System\)](#) with Control by Casambi was created to make it possible to control light via Bluetooth Low Energy without the use of any special cables, ensuring system operational readiness. This wireless technology is compatible with all modern smart devices: smartphones, tablets and even smartwatches. Targetti fixtures are equipped with a special interface that allows them to communicate with each other to create a remotely controllable "smart" network.

The advantages are boundless. The possibility for users to interact with lighting – varying intensity, tone and shape in complete freedom and autonomy according to their needs. The design approach known as Human Centric Lighting that places people at the center of lighting projects.

Flexible and easy to use, suitable for managing all types of simple to more complex systems, LMS is a future-oriented system that can be constantly updated because it can be used with a simple application that can be downloaded onto a mobile device to manage the entire system in wireless mode.

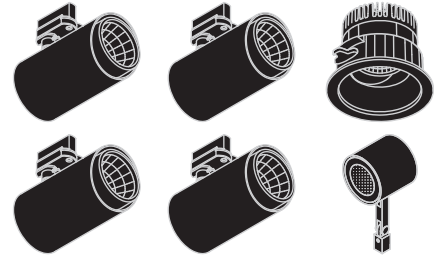
INSTALLATION SEQUENCE

1

Choose Targetti fixtures by opting for the Targetti Casambi Ready package or Casambi accessory components



Single



Groups

2

Download the Casambi iOS or Android App depending on the device used

Unit control

3

Launch the App: the fixtures in operation will be detected automatically

4

Create one or two networks depending on the characteristics of the environment

5

Create groups of devices as needed

6

Program scenes and/or sequences.

7

Set the level of network sharing

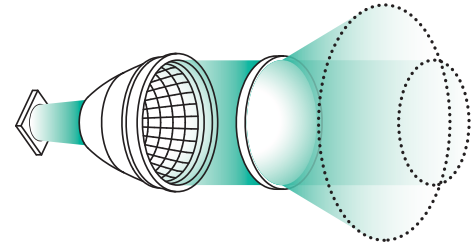


OZ 48V SMALL

DBS – DYNAMIC BEAM SHAPING

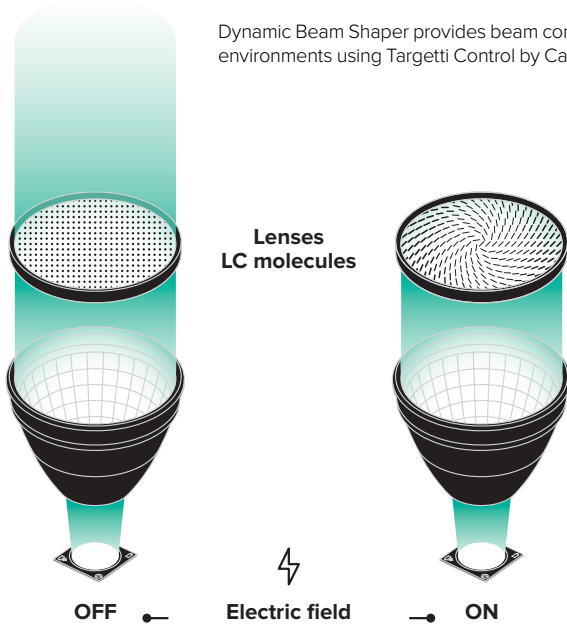
Uniform light and contemporary atmosphere.

[Dynamic Beam Shaping \(DBS\)](#) optical technology was created from the desire to give designers a sophisticated yet simple to use tool. Technology that we were the first to develop in the lighting sector together with Lens Vector – a leading American company in lens design - that makes it possible to vary the beam opening of fixtures via digital input without any mechanical system. With DBS we combined LED sources, collimated optics and lenses equipped with liquid crystal molecules that can be activated and oriented using an electric field thus creating a light diffusion process.



HOW IT WORKS Liquid crystal materials are widely used in projectors and LC (LCD) displays. They are elongated molecules that are naturally aligned in the same direction. The DBS lens is composed of two glass substrates separated by spacers that are sealed to contain the liquid crystal materials in a kind of “sandwich”. When an electric field is applied to the lens the molecules change direction and refocus the light that passes through the lens. Managing the electric field and the direction of the molecules it is possible to shape the light beam.

Dynamic Beam Shaper provides beam control from 15° to 55°, allowing designers to create scenes and manage lighting in different environments using Targetti Control by Casambi, without the use of mechanical systems, scales or replacement optics.



HOW IT'S CONTROLLED Using the Casambi app, available for IOS and Android, it is possible to dim the sources, set the desired beam opening and create dynamic scenes. The same fixture controlled from any smart device provides infinite possibilities.

