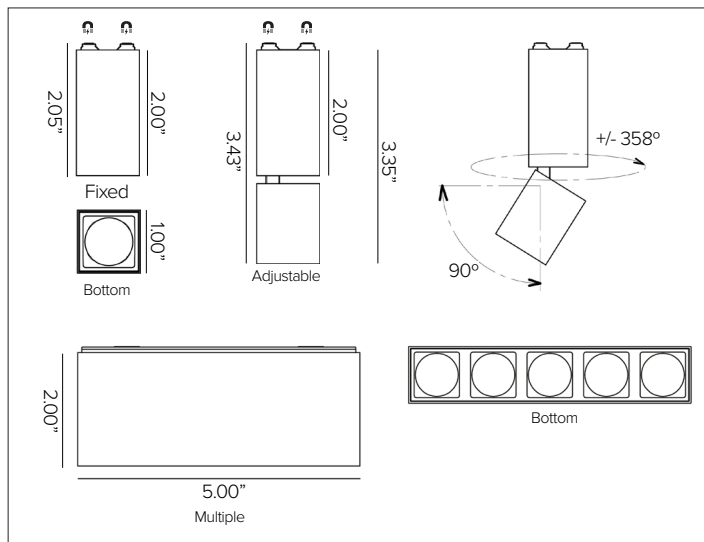


OZ 48V SMALL

Magnet Mounted Modular Light System



OZ 48V SMALL shown in shown in Plaster White finish.. Top to bottom: Fixed, Adjustable, Multiple.



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. 'Hot Swap' capable.
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: 8W nominal
Voltage	48V
Control	Flicker free dimming achieved through either 0-10V 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	87.6	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

OZ								
1	2	3	4	5	6	7	8	9

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 — 8W	MW — MWFL 41°	35 — 3500K 40 — 4000K
OZ —OZ 48V	11F ^A — Small 1" X 1" Fixed Wireless	C — Casambi Wireless Bluetooth	PW — Plaster White	L4 — 3W	SP — SP 11°	27 — 2700K
	11A ^A — Small 1" X 1" Adjustable Wireless		DB — Deep Black		FL — FL 28°	30 — 3000K
			RAL — Custom RAL		MW — MWFL 41°	35 — 3500K 40 — 4000K
	15M ^B — Small 1" X 5" Fixed Multiple Wireless			L5 — 8W	SP — SP 11° FL — FL 28° MW — MWFL 41°	
8 - RAIL & DRIVER		9 - PROFILE				
REQUIRED See OZ 48V POWER RAIL spec sheet for specification information.		OPTIONAL See OZ 48V <i>PROFILE</i> spec sheets for specification information. SURFACE/ SUSPENSION or RECESSED .				

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

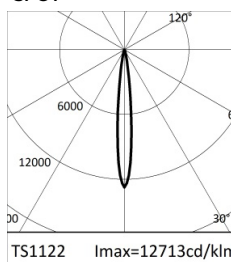
^B Multiple version available in 10W only.

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

OZ 48V SMALL

PHOTOMETRY

SPOT



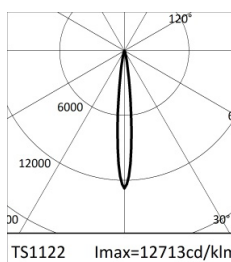
	2700K	H(m)	D(m)	Emax(lx)
	Ra90		11°	
Fixture Power	3W	1	0.20	2377
Source Flux	187lm	2	0.40	594
Fixture Flux	146lm	3	0.60	264
Efficacy	52lm/W	4	0.79	149
TS1122	Imax=12713cd/klm	Imax	2377cd	95

Maximum UGR = 0.9 (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
TS1122	Imax=12713cd/klm	Imax	2505cd	100

Maximum UGR = 1.2 (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
TS1122	Imax=12713cd/klm	Imax	2581cd	103

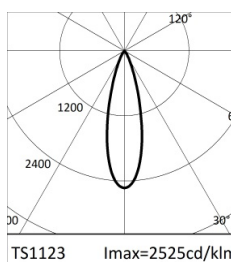
Maximum UGR = 1.6 (based on actual lumens)



	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
TS1122	Imax=12713cd/klm	Imax	2695cd	108

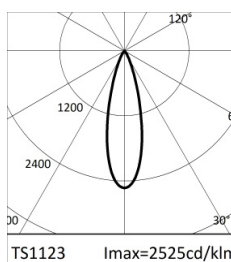
Maximum UGR = 1.6 (based on actual lumens)

FLOOD



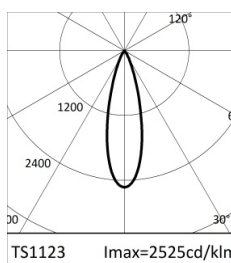
	2700K	H(m)	D(m)	Emax(lx)
	Ra90		28°	
Fixture Power	3W	1	0.51	472
Source Flux	187lm	2	1.01	118
Fixture Flux	140lm	3	1.52	52
Efficacy	50lm/W	4	2.02	30
TS1123	Imax=2525cd/klm	Imax	472cd	19

Maximum UGR = 7.3 (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
TS1123	Imax=2525cd/klm	Imax	497cd	20

Maximum UGR = 7.6 (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
TS1123	Imax=2525cd/klm	Imax	513cd	21

Maximum UGR = 7.7 (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
TS1123	Imax=2525cd/klm	Imax	535cd	21

Maximum UGR = 7.7 (based on actual lumens)

OZ 48V SMALL

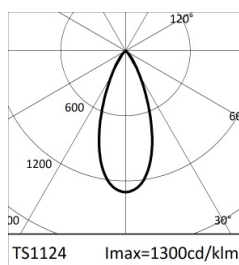
PHOTOMETRY

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
TS1124	I _{max} =1300cd/klm	I _{max}	243cd	5 3.76 10

Maximum UGR = 11.7 (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
TS1124	I _{max} =1300cd/klm	I _{max}	264cd	5 3.76 11

Maximum UGR = 11.9 (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
TS1124	I _{max} =1300cd/klm	I _{max}	256cd	5 3.76 10

Maximum UGR = 11.9 (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
TS1124	I _{max} =1300cd/klm	I _{max}	276cd	5 3.76 11

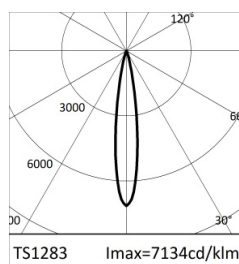
Maximum UGR = 12.1 (based on actual lumens)

DBS - SPOT



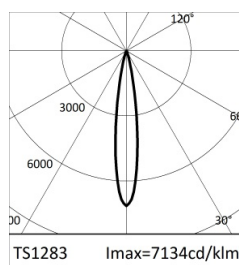
2700K		H(m)	D(m)	Emax(lx)
Ra90			16°	
Fixture Power	3W	1	0.28	1598
Source Flux	224lm	2	0.56	400
Fixture Flux	166lm	3	0.84	178
Efficacy	59lm/W	4	1.12	100
TS1283	I _{max} =7134cd/klm	I _{max}	1598cd	5 1.40 64

Maximum UGR = 18.6 (based on actual lumens)



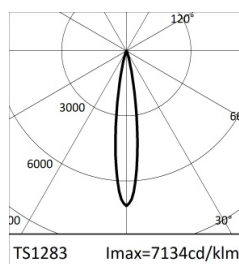
3500K		H(m)	D(m)	Emax(lx)
Ra90			16°	
Fixture Power	3W	1	0.28	1734
Source Flux	243lm	2	0.56	433
Fixture Flux	180lm	3	0.84	193
Efficacy	64lm/W	4	1.12	108
TS1283	I _{max} =7134cd/klm	I _{max}	1734cd	5 1.40 69

Maximum UGR = 18.9 (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 67

Maximum UGR = 18.8 (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 73

Maximum UGR = 19.1 (based on actual lumens)

OZ 48V SMALL

PHOTOMETRY

DBS - MEDIUM WIDE FLOOD



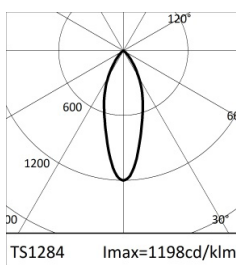
2700K		H(m)	D(m)	Emax(lx)		
Ra90			35°			
Fixture Power	3W	1	0.62	268		
Source Flux	224lm	2	1.24	67		
Fixture Flux	148lm	3	1.86	30		
Efficacy	53lm/W	4	2.49	17		
TS1284	Imax=1198cd/klm	Imax	268cd	5	3.11	11

Maximum UGR = 19.7 (based on actual lumens)



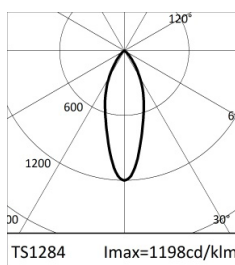
3000K		H(m)	D(m)	Emax(lx)		
Ra90			35°			
Fixture Power	3W	1	0.62	283		
Source Flux	236lm	2	1.24	71		
Fixture Flux	156lm	3	1.86	31		
Efficacy	56lm/W	4	2.49	18		
TS1284	Imax=1198cd/klm	Imax	283cd	5	3.11	11

Maximum UGR = 19.9 (based on actual lumens)

The diagram is a circular light distribution plot. It features concentric circles representing distances of 600, 1200, and 1800 mm. Radial lines indicate beam angles of 30, 60, 90, 120, and 150 degrees. A vertical elliptical shape is drawn, centered at the top, representing the beam's footprint. The top of the ellipse is labeled '120°' and the bottom '30°'. The width of the ellipse at its base is labeled '1200'. The height of the ellipse is labeled '600'. The area within the ellipse is shaded with a light gray pattern.

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

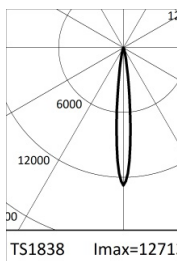
Maximum UGR = 20.0 (based on actual lumens)



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)



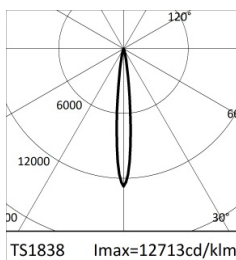
2700K		H(m)	D(m)	Emax(lx)		
Ra90			11°			
Fixture Power	8W	1	0.20	7895		
Source Flux	621lm	2	0.40	1974		
Fixture Flux	484lm	3	0.60	877		
Efficacy	58lm/W	4	0.79	493		
TS1838	Imax=12713cd/klm	Imax	7895cd	5	0.99	316

Maximum UGR = 0.0 (based on actual lumens)



3000K		H(m)	D(m)	Emax(lx)		
Ra90			11°			
Fixture Power	8W	1	0.20	8314		
Source Flux	654lm	2	0.40	2079		
Fixture Flux	510lm	3	0.60	924		
Efficacy	61lm/W	4	0.79	520		
TS1838	Imax=12713cd/klm	Imax	8314cd	5	0.99	333

Maximum UGR = 0.0 (based on actual lumens)



3500K		H(m)	D(m)	Emax(lx)		
Ra90			11°			
Fixture Power	8W	1	0.20	8569		
Source Flux	674lm	2	0.40	2142		
Fixture Flux	526lm	3	0.60	952		
Efficacy	63lm/W	4	0.79	536		
TS1838	Imax=12713cd/klm	Imax	8569cd	5	0.99	343

Maximum UGR = 0.0 (based on actual lumens)



4000K		H(m)	D(m)	Emax(lx)		
Ra90			11°			
Fixture Power	8W	1	0.20	8950		
Source Flux	704lm	2	0.40	2238		
Fixture Flux	549lm	3	0.60	994		
Efficacy	66lm/W	4	0.79	559		
TS1838	Imax=12713cd/klm	Imax	8950cd	5	0.99	358

Maximum UGR = 0.1 (based on actual lumens)

OZ 48V SMALL

PHOTOMETRY

FLOOD (MULTIPLE)

	2700K	H(m)	D(m)	Emax(lx)
	Ra90		28°	
	Fixture Power	8W	1	0.51
	Source Flux	621lm	2	1.01
	Fixture Flux	465lm	3	1.52
	Efficacy	56lm/W	4	2.02
	TS1839 I _{max} =2525cd/klm	I _{max}	1568cd	5

Maximum UGR = 5.9 (based on actual lumens)

	3500K	H(m)	D(m)	Emax(lx)
	Ra90		28°	
	Fixture Power	8W	1	0.51
	Source Flux	674lm	2	1.01
	Fixture Flux	505lm	3	1.52
	Efficacy	61lm/W	4	2.02
	TS1839 I _{max} =2525cd/klm	I _{max}	1702cd	5

Maximum UGR = 6.2 (based on actual lumens)

MEDIUM WIDE FLOOD (MULTIPLE)

	2700K	H(m)	D(m)	Emax(lx)
	Ra90		41°	
	Fixture Power	8W	1	0.75
	Source Flux	621lm	2	1.50
	Fixture Flux	448lm	3	2.26
	Efficacy	54lm/W	4	3.01
	TS1840 I _{max} =1300cd/klm	I _{max}	807cd	5

Maximum UGR = 10.2 (based on actual lumens)

	3500K	H(m)	D(m)	Emax(lx)
	Ra90		41°	
	Fixture Power	8W	1	0.75
	Source Flux	674lm	2	1.50
	Fixture Flux	487lm	3	2.26
	Efficacy	59lm/W	4	3.01
	TS1840 I _{max} =1300cd/klm	I _{max}	876cd	5

Maximum UGR = 10.5 (based on actual lumens)

	3000K	H(m)	D(m)	Emax(lx)
	Ra90		28°	
	Fixture Power	8W	1	0.51
	Source Flux	654lm	2	1.01
	Fixture Flux	490lm	3	1.52
	Efficacy	59lm/W	4	2.02
	TS1839 I _{max} =2525cd/klm	I _{max}	1652cd	5

Maximum UGR = 6.1 (based on actual lumens)

	4000K	H(m)	D(m)	Emax(lx)
	Ra90		28°	
	Fixture Power	8W	1	0.51
	Source Flux	704lm	2	1.01
	Fixture Flux	527lm	3	1.52
	Efficacy	64lm/W	4	2.02
	TS1839 I _{max} =2525cd/klm	I _{max}	1778cd	5

Maximum UGR = 6.4 (based on actual lumens)

	3000K	H(m)	D(m)	Emax(lx)
	Ra90		41°	
	Fixture Power	8W	1	0.75
	Source Flux	654lm	2	1.50
	Fixture Flux	472lm	3	2.26
	Efficacy	57lm/W	4	3.01
	TS1840 I _{max} =1300cd/klm	I _{max}	850cd	5

Maximum UGR = 10.4 (based on actual lumens)

	4000K	H(m)	D(m)	Emax(lx)
	Ra90		41°	
	Fixture Power	8W	1	0.75
	Source Flux	704lm	2	1.50
	Fixture Flux	508lm	3	2.26
	Efficacy	61lm/W	4	3.01
	TS1840 I _{max} =1300cd/klm	I _{max}	915cd	5

Maximum UGR = 10.7 (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.

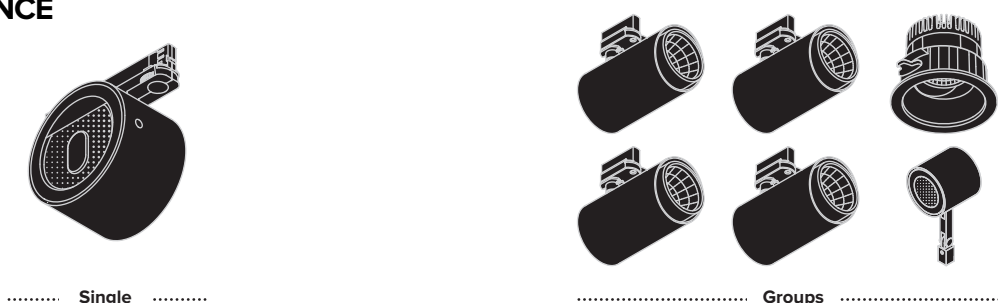
The advantages are boundless. The possibility for users to interact with lighting – varying intensity, tone and shape in complete freedom and autonomy according to their needs. The design approach known as Human Centric Lighting that places people at the center of lighting projects.

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



2

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

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

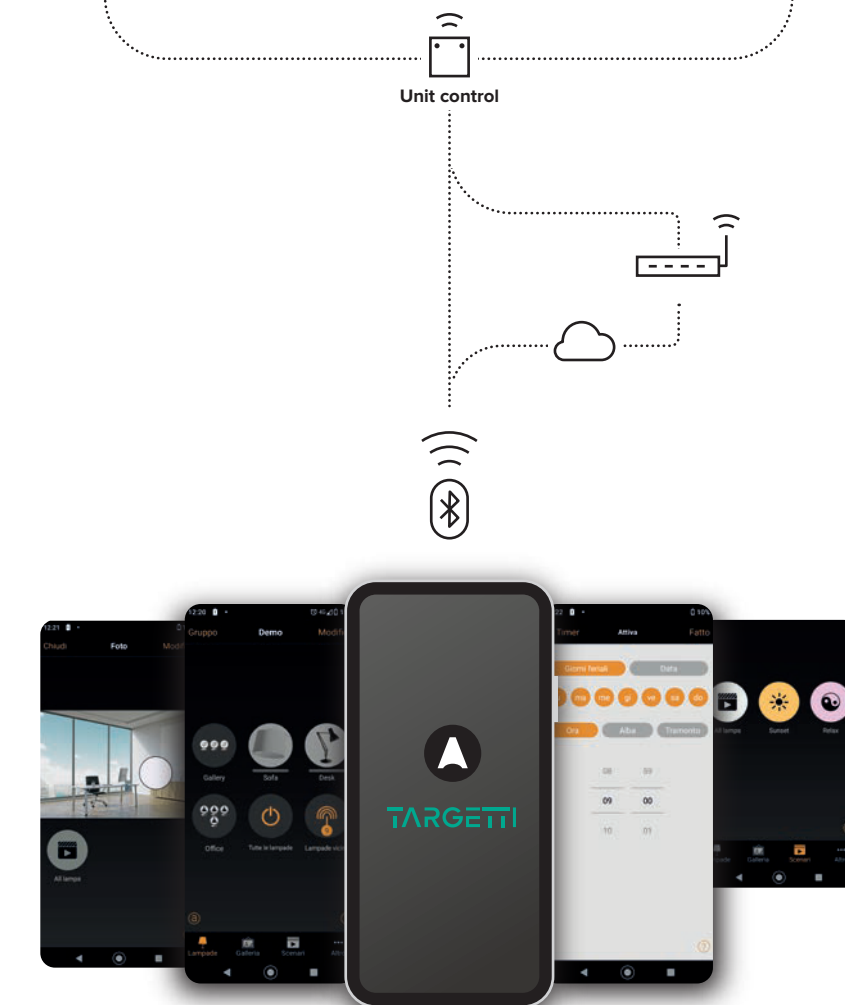
Create groups of devices as needed

6

Program scenes and/or sequences.

7

Set the level of network sharing

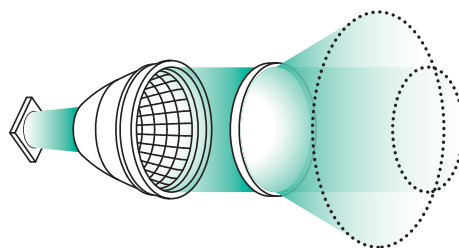


OZ 48V SMALL

DBS – DYNAMIC BEAM SHAPING

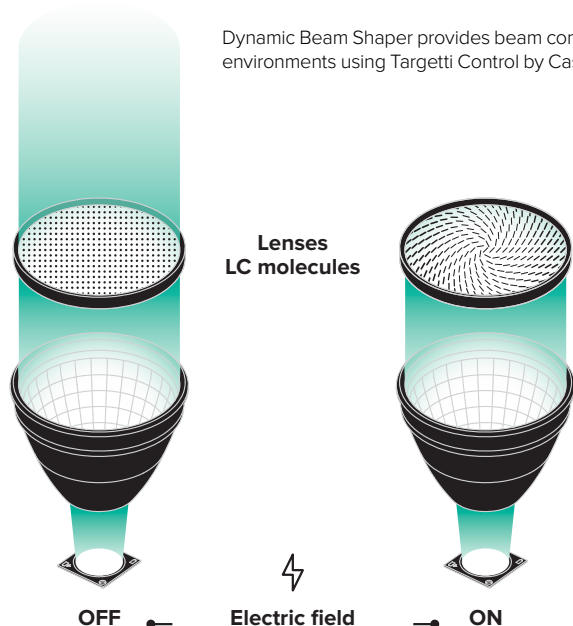
Uniform light and contemporary atmosphere.

[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.

