

TARGETTI

CLOUD

Extractable 6" LED Downlight Projector

Concept: LED recessed extractable downlight.

Housings: Non IC plaster frame or IC/Air tight housing available.

Materials: Head, front ring and heat sink in die-cast aluminum painted in plaster white or deep black finish.

Trim: Die-cast aluminum frame in plaster white or deep black.

Optic: Metallized polycarbonate precision optics specifically developed for LED sources, with convex facets and high reflectance. Available in SP 15° / FL 30° / MF 46° / WF 60°; "Scratch Proof Formula" treatment.

Hybrid - Anodized aluminum reflector and lens system in optical glass for completely uniform beam. Available in SP 15° / FL 30° optics; "Scratch Proof Formula" treatment.

Mounting: Removable front ring for the insertion of dedicated optical accessories. Tool-free spring-clip mounting system into Targetti recessed housings. May be manually aimed from -25° to +75° in the vertical plane and 355° in the horizontal plane.

Driver: Driver available as Electronic Phase or 0-10V dimmable. Also available with EldoLED 0-10V, Eco (1%) and Solo (0.1%) dimmable drivers

Wattage: 28W for faceted / 38W for hybrid

Color Temperature: 2700°K / 3000°K / 3500°K / 4000°K

CRI: Ra+90

Lumen Maintenance (L70): 50,000hrs

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

Universal Voltage: 120-277V AC 50/60 Hz, 120V or 277V must be specified for current thermal protector

IP Rating: IP20, IP23

Certifications: cULus Damp Listed E477426

Tested in accordance with LM-79-08

IC/Air tight housing version is Chicago Plenum Rated

Energy efficient for California installations.

Warranty: 5 year limited warranty



Delivered Lumens: Faceted

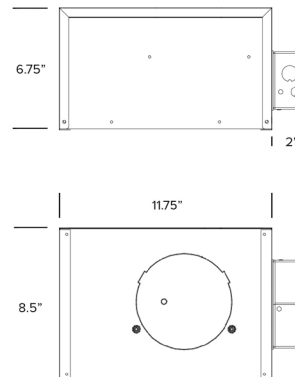
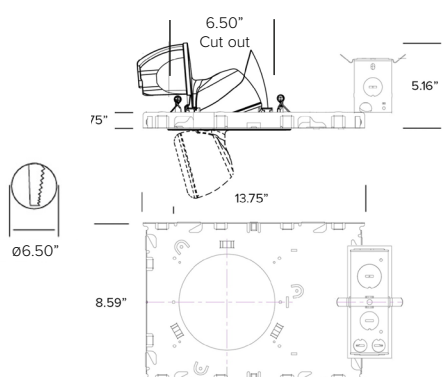
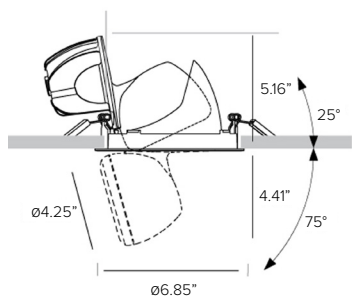
	2700°K	3000°K	3500°K	4000°K
15° Spot =	2285Lm	2377Lm	2706Lm	2711Lm
30° Flood =	2275Lm	2367Lm	2695Lm	2699Lm
46° Medium Wide Flood =	2336Lm	2430Lm	2767Lm	2771Lm
60° Wide Flood =	2365Lm	2461Lm	2802Lm	2806Lm

Delivered Lumens: Hybrid

	2700°K	3000°K	3500°K	4000°K
15° Spot =	2038Lm	2119Lm	2414Lm	2418Lm
30° Flood =	1918Lm	1995Lm	2272Lm	2276Lm

PRODUCT CODE	FIXTURE COLOR	OPTIC	BEAM	WATTAGE	COLOR TEMP	HOUSING	DRIVER	VOLTAGE
CLL - CLOUD	PW - Plaster White	F - Faceted	SP - Spot 15°	L1 - 28W	27 - 2700K	NC - Non-IC Plaster Frame	EP ² - Electronic Phase Dimmable	1 - 120
	DB - Deep Black		FL - Flood 30°		30 - 3000K			
			MF - Medium Wide Flood 46°	35 - 3500K	E1 - Eldo 1%			
			WF - Wide Flood 60°	40 - 4000K		E0 - Eldo 0.1%		
		H - Hybrid	SP - Spot 15°	L3 - 38W	27 - 2700K		¹ IC/Air tight housing suitable for Chicago Plenum rated installation. ² Electronic phase dimming available for 120V only.	
			FL - Flood 30°			30 - 3000K		

Views



OPTICAL ACCESSORIES:	
Maximum of one optical accessory per fixture	
1T3727	Transparent polycarbonate holder ring for the accessories. Required for use of all filters and glare grid.
1T1712	Chromatic filter Red. Glass made, with dichroic treatment. To be completed with dedicated holder ring. Diameter 2.8".
1T1713	Chromatic filter Green. Glass made, with dichroic treatment. To be completed with dedicated holder ring. Diameter 2.8".
1T1714	Chromatic filter Blue. Glass made, with dichroic treatment. To be completed with dedicated holder ring. Diameter 2.8".
1T1715	Chromatic filter Yellow. Glass made, with dichroic treatment. To be completed with dedicated holder ring. Diameter 2.8".
1T1716	Chromatic filter Magenta. Glass made, with dichroic treatment. To be completed with dedicated holder ring. Diameter 2.8".
1T1777	Chromatic filter Cold tone. Interference glass filter to vary the colour temperature of light. To be completed with dedicated holder ring. Diameter 2.8".
1T1786	Chromatic filter Gold tone. Interference glass filter to vary the colour temperature of light. To be completed with dedicated holder ring. Diameter 2.8".
1T1759	Chromatic filter Peach tone. Interference glass filter to vary the colour temperature of light. To be completed with dedicated holder ring. Diameter 2.8".
1T1708	Parallel ribbed glass light blade 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 additional holder ring. Diameter 2.8".
1T1709	Wired refractive flat glass diffusive filter. This softens the luminous effect. To be completed with additional holder ring. Diameter 2.8".
1T1711	Anti-glare grid. Black lacquered metal honeycomb structure. To be completed with additional holder ring. Diameter 2.8".
1T3143	Asymmetric screen in anodized diffusive aluminum, black painted outside. Complete with blade light filter. Ideal for a wall washer effect. To be combined with spot and flood optics. Diameter 3.15".
1T3432	Zoom. Optical system consists of flat convex lens in optical glass, specular reflector in anodized aluminium and diffusive holographic filter. To be used after removing the existing optic. It allows to obtain a variable beam from 15° to 60°. It can not be used with NSP and hybrid optics. Diameter 3.15". Cannot be used with hybrid optic version.
1T3142	Cut-off Tube. Allows for the beam to be focused while removing the fall-off component. Diameter 3.15".
1T6522	Clear protective glass lens. Diameter 2.8".



1T3727



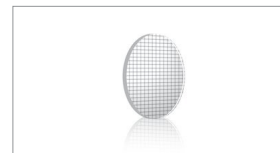
Chromatic Filters



Tonal Filters



1T1708



1T1709



1T1711



1T3143



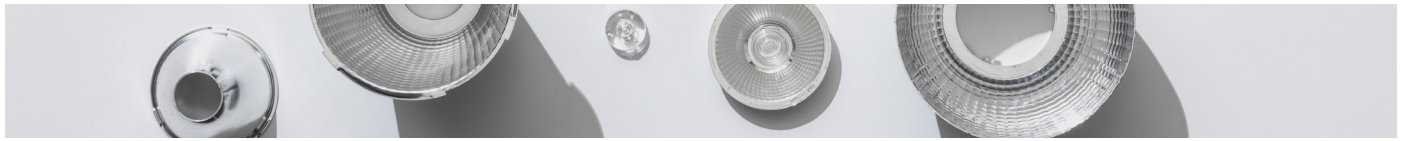
1T3432



1T3142

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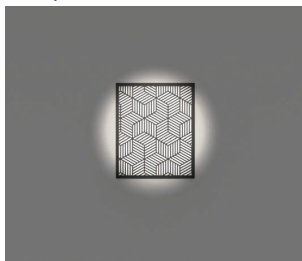
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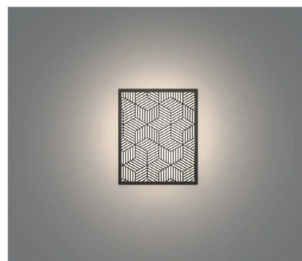
OPTICAL SYSTEM

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.

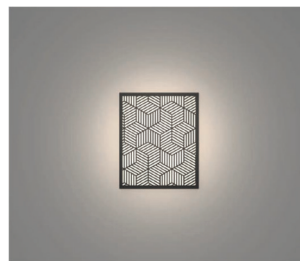
example



LENTICULAR OPTIC - SPOT



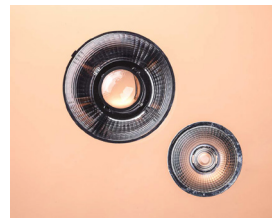
HYBRID OPTIC - SPOT



REFLECTOR OPTIC - SPOT

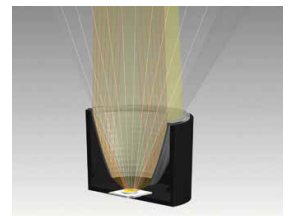
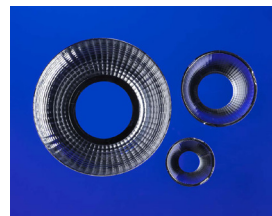
HYBRID

They represent the best compromise between efficiency and beam definition. Based on the combined use of reflectors and lenses they combine the advantages of two light control methods. High efficiency and clean beams for well collimated beams that are completely free from fall-off halos, which is a normal effect of light that is not controlled in optics with a simple reflector. Inside a classic faceted reflector a frame is inserted which positions one or more optical glass lenses in front of the lamp: while the reflector controls the periphery of the beam, the lenses manage its central part separately, the part that normally escapes out of control. Cancelling "spurious" light is combined with flux recovery and an increase in intensity inside the beam.



FACETED

They ensure the best performance in terms of energy saving and come in all beam openings – from the narrowest to the widest – and allow for perfect mixing with soft wide tones between light and shade. These characteristics make them more suitable for retail and hospitality environments. They are made from high vacuum metallized plastic protected with a Scratch Proof Formula or from polished anodized pure aluminum. Their high reflectance always ensures high optical efficiency. Profiles designed with the best simulation software with ellipsoidal convex facets generate various beam angles with an optimal light mix. A precise and enveloping light at the same time.



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Photometry

SPOT (FACETED)					POLAR GRAPH		CONE OF LIGHT						
Fixture Power	28W	28W	28W	28W			(Ft)	Alpha=7.4°=7.4°	G=0.0°	Beta=7.4°=7.4°	Max	Med	
Fixture Output	2285Lm	2377Lm	2706Lm	2711Lm								ftcd	ftcd
Kelvin Temp	2700°K	3000°K	3500°K	4000°K					2.00			4578	2940
Beam Spread	Spot 15°	Spot 15°	Spot 15°	Spot 15°					4.00			1145	735
I _{Max}	6810cd/klm	6810cd/klm	6810cd/klm	6810cd/klm					6.00			509	327
Efficacy	82 Lm/W	85 Lm/W	97 Lm/W	97 Lm/W					8.00			286	184
							10.00			183	118		

SPOT (HYBRID)					POLAR GRAPH		CONE OF LIGHT						
Fixture Power	38W	38W	38W	38W			(Ft)	Alpha=8.9°=8.9°	G=0.0°	Beta=8.9°=8.9°	Max	Med	
Fixture Output	2038Lm	2119Lm	2414Lm	2418Lm								ftcd	ftcd
Kelvin Temp	2700°K	3000°K	3500°K	4000°K					2.00			7229	4600
Beam Spread	Spot 15°	Spot 15°	Spot 15°	Spot 15°					4.00			1807	1150
I _{Max}	9200cd/klm	9200cd/klm	9200cd/klm	9200cd/klm					6.00			803	511
Efficacy	54 Lm/W	56 Lm/W	64 Lm/W	64 Lm/W					8.00			452	287
							10.00			289	184		

FLOOD (FACETED)					POLAR GRAPH		CONE OF LIGHT						
Fixture Power	28W	28W	28W	28W			(Ft)	Alpha=15.3°=15.3°	G=0.0°	Beta=15.3°=15.3°	Max	Med	
Fixture Output	2275Lm	2367Lm	2695Lm	2699Lm								ftcd	ftcd
Kelvin Temp	2700°K	3000°K	3500°K	4000°K					2.00			1688	1081
Beam Spread	Flood 30°	Flood 30°	Flood 30°	Flood 30°					4.00			422	270
I _{Max}	2512cd/klm	2512cd/klm	2512cd/klm	2512cd/klm					6.00			188	120
Efficacy	81 Lm/W	85 Lm/W	96 Lm/W	96 Lm/W					8.00			106	68
							10.00			68	43		

FLOOD (HYBRID)					POLAR GRAPH		CONE OF LIGHT						
Fixture Power	38W	38W	38W	38W			(Ft)	Alpha=16.3°=16.3°	G=0.0°	Beta=16.3°=16.3°	Max	Med	
Fixture Output	1918Lm	1995Lm	2272Lm	2276Lm								ftcd	ftcd
Kelvin Temp	2700°K	3000°K	3500°K	4000°K					2.00			1752	1124
Beam Spread	Flood 30°	Flood 30°	Flood 30°	Flood 30°					4.00			438	281
I _{Max}	2230cd/klm	2230cd/klm	2230cd/klm	2230cd/klm					6.00			195	125
Efficacy	51 Lm/W	53 Lm/W	60 Lm/W	60 Lm/W					8.00			110	70
							10.00			70	45		

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Photometry Cont.

MEDIUM WIDE FLOOD (FACETED)					POLAR GRAPH		CONE OF LIGHT					
Fixture Power	28W	28W	28W	28W			(Ft)	Alpha=21.7°=21.7°	G=0.0° Max rot at G	Beta=21.7°=21.7°	Max	Med
Fixture Output	2336Lm	2430Lm	2767Lm	2771Lm			ftcd	ftcd				
Kelvin Temp	2700°K	3000°K	3500°K	4000°K			2.00	1114	680			
Beam Spread	MF 46°	MF 46°	MF 46°	MF 46°			4.00	279	170			
I _{Max}	1685cd/klm	1685cd/klm	1685cd/klm	1685cd/klm			6.00	124	76			
Efficacy	83 Lm/W	87 Lm/W	99 Lm/W	99 Lm/W			8.00	70	42			
					10.00	45	27					

WIDE FLOOD (FACETED)					POLAR GRAPH		CONE OF LIGHT					
Fixture Power	28W	28W	28W	28W			(Ft)	Alpha=28.4°=28.4°	G=0.0°	Beta=28.4°=28.4°	Max	Med
Fixture Output	2365Lm	2461Lm	2802Lm	2806Lm			ftcd	ftcd				
Kelvin Temp	2700°K	3000°K	3500°K	4000°K			2.00	793	444			
Beam Spread	WF 60°	WF 60°	WF 60°	WF 60°			4.00	198	111			
I _{Max}	1180cd/klm	1180cd/klm	1180cd/klm	1180cd/klm			6.00	88	49			
Efficacy	84 Lm/W	88 Lm/W	100 Lm/W	100 Lm/W			8.00	50	28			
					10.00	32	18					