



TIGUA_{Led}
Lighting to save

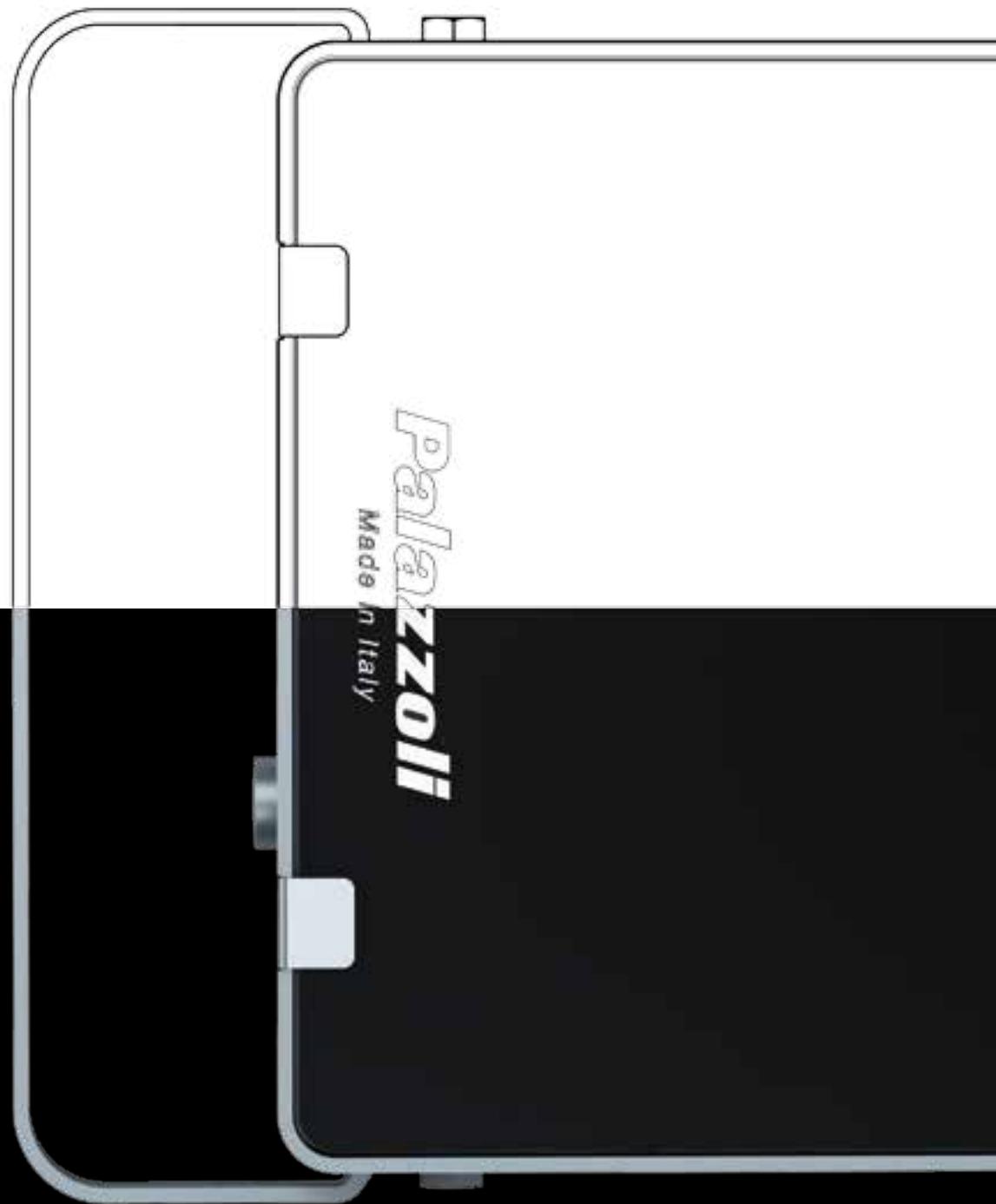
Palazzoli
1862-2017

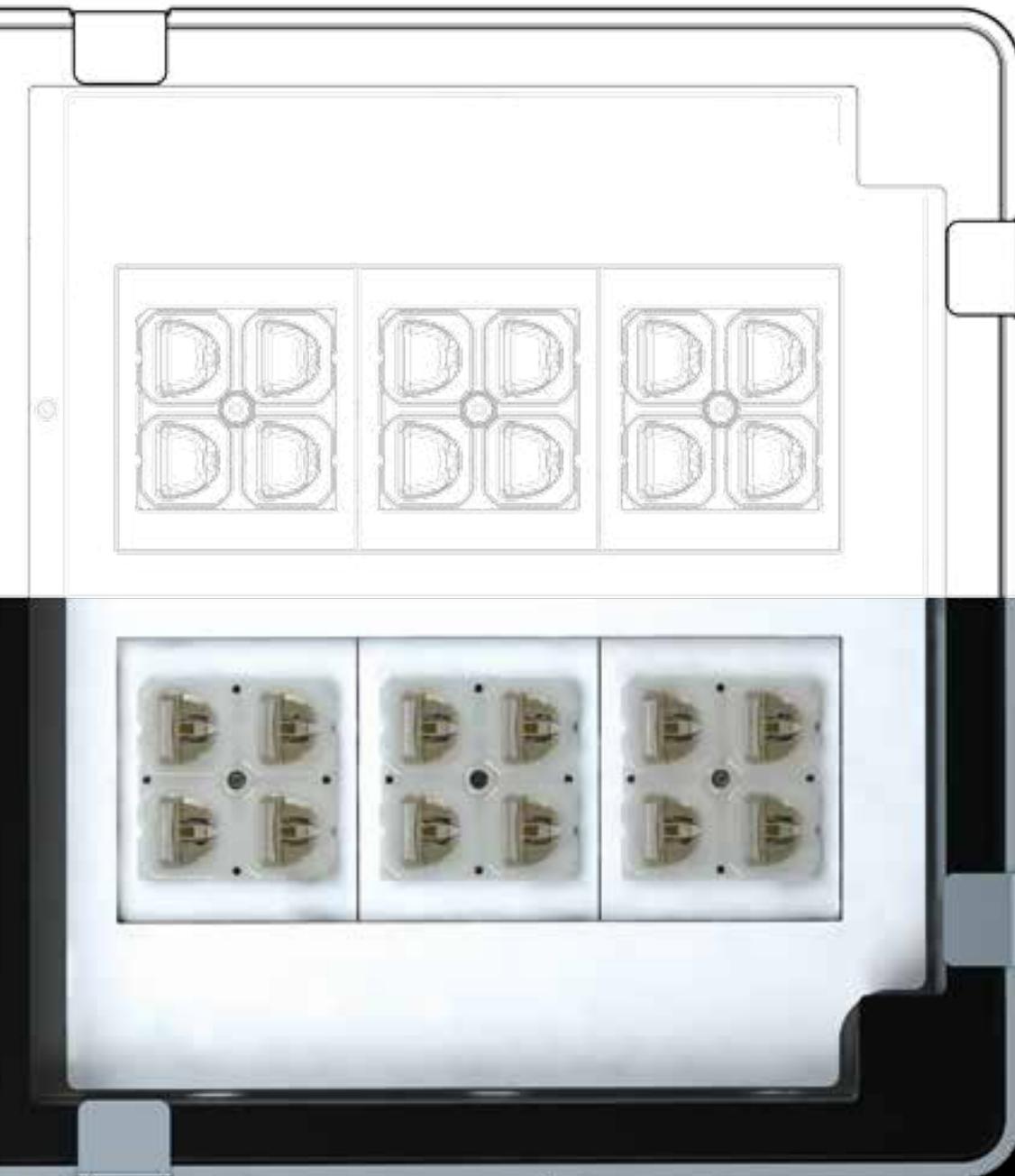
Tailored lighting

TIGUA Led is the new professional lighting fixture range designed specifically for both floodlighting and pendant suspension. Thanks to the multiple photometric solutions, it guarantees a wide selection to choose the best light distribution solution for all conditions.

The use of high quality optics and luminaire design offers a wide range of solutions and applications:

- narrow for lighting specific areas such as aisles
- wide for diffused general area lighting
- asymmetrical for lighting big areas, sport centers or car parking
- roadway for street lighting applications.





High performance

For all the site lighting requirements,
TIGUA Led is the best solution for:

- technological performance
- energy saving
- ease of installation.

Complete range

TIGUA Led offers a wide product range for any
application, internal and external, and will
guarantee optimum light quality and high color
rendering characteristics (CRI).

Lightweight and compact

Despite its size, TIGUA Led is a very powerful lighting fixture and at the same time easy to handle, at only 6,5 kg: it can be installed by a single person and needs only two fixing points for a rapid pendant suspension.



Versatile, solutions for all applications

The TIGUA Led range of accessories provides specific solution for any need. This range of accessories will allow for the installation of the lighting fixture in any situation. Accessories for ceiling mounting, pendant suspension, pole-top and wall brackets are offered as standard solutions. TIGUA Led also offers emergency options as standard.

The TIGUA Led is equipped with on-off standard control gear. 1-10V dimming system is standard on the pendant suspension fixtures, DALI or other Wireless systems are available on request. Special versions are also available for tough environments, like high ambient temperatures or where it is necessary to comply with specific standards (for example HACCP for food industries).

Floodlight



Adjustable bracket



Bracket for wall-mounting



Pole collar (adaptor)



Pole-top spigot (adaptor)

Suspension



Double chain



Ceiling mounting



Horizontal pole mounted



Double chain adjustable

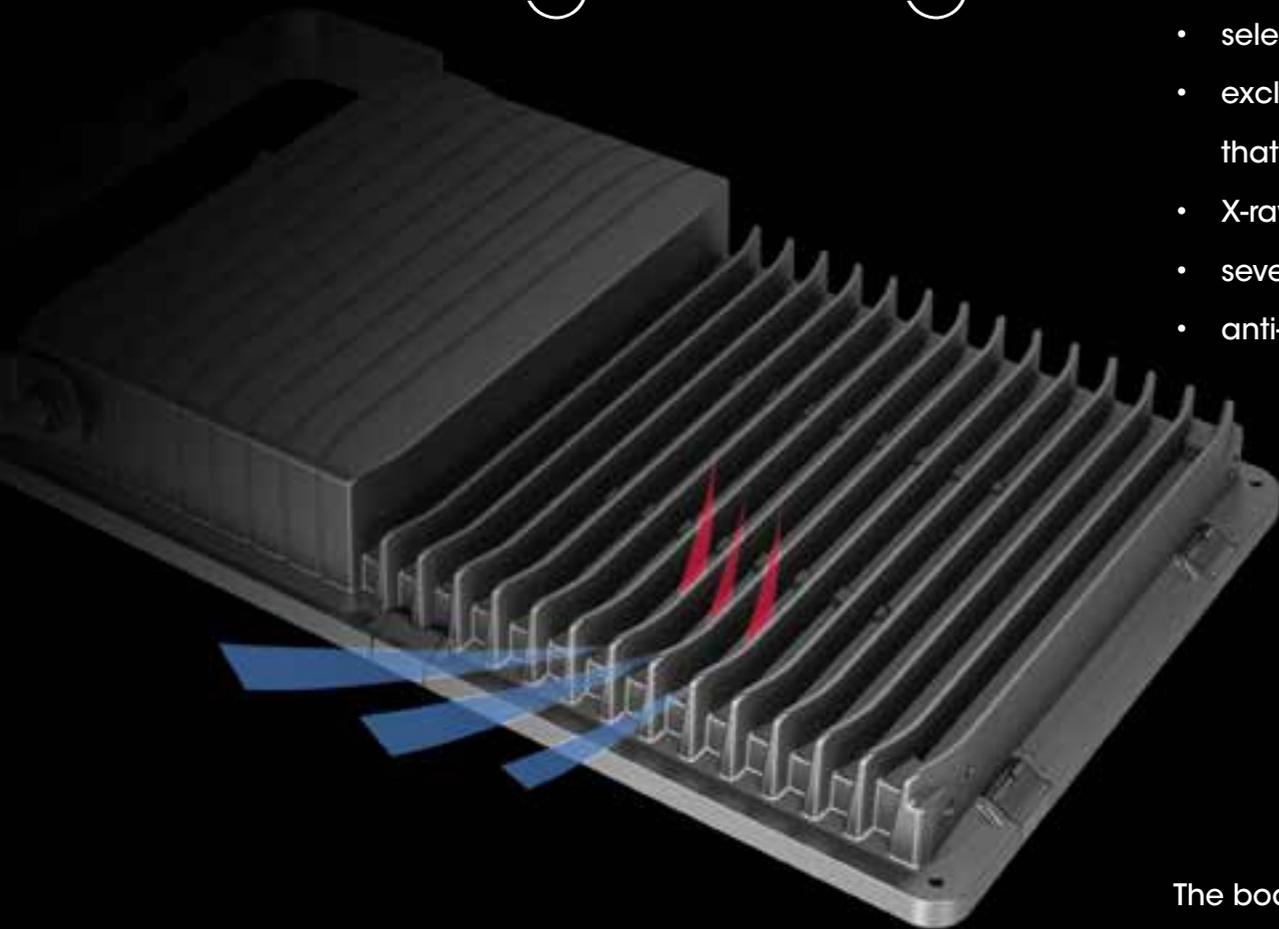


Catenary wire



Emergency bracket

Durable and long-lasting



TIGUA Led long life is guaranteed due to a number of features:

- selected electronic components
- exclusive heat sink system and thermal management that keep the semiconductors unaltered
- X-ray test for the LED weldings
- severe tests on the 100% with 24h burn-in cycles
- anti-condensation gore-tex® breather valve.

The body is made of EN 44300 aluminium alloy with low content of copper suitable for very harsh environments.

Efficient and safe

LED drivers and control gears provide stable and “flicker” free performance and state-of-the-art LEDs allow for TIGUA Led to reach an efficiency of ≥ 110 lumen/Watt output.

The color rendering performance is guaranteed by light sources with $CRI \geq 80$. TIGUA Led is also photobiologically safe with class RG0 as per EN 62471 standard.

Particular care has been adopted in order to achieve a low level of glare. TIGUA Led is equipped with a connector for rapid coupling to the electrical network without opening the fixture, the protection rating IP66 is thus guaranteed.



FLICKER
FREE



RISK
GROUP
ZERO



ENERGY
SAVING



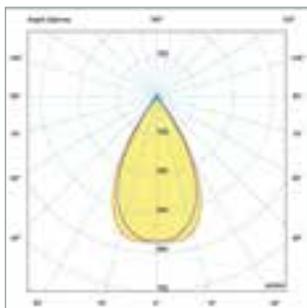
Convenient

TIGUA Led means self-sustaining light.

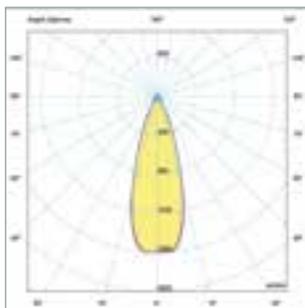
It reduces the management costs guaranteeing maximum quality. The payback time is guaranteed and maintained thanks to the long-lasting devices.

Floodlight

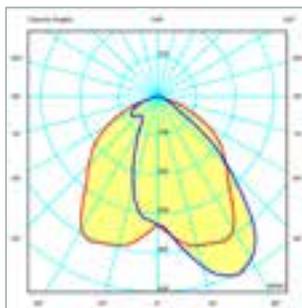
Symmetrical
extra-wide



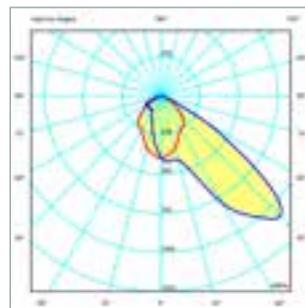
Symmetrical
narrow



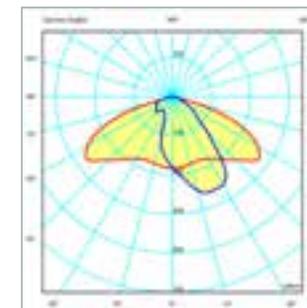
Asymmetrical
extra-wide



Asymmetrical
narrow

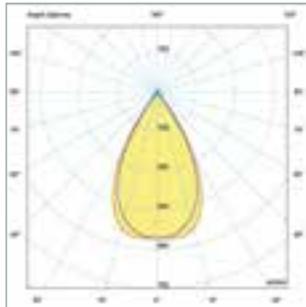


Roadway
extra-wide

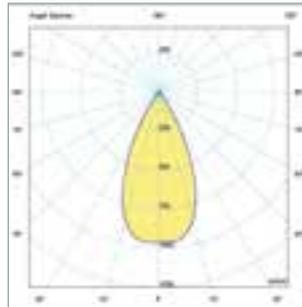


Suspension

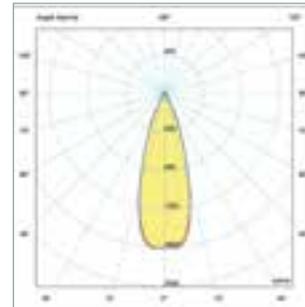
Symmetrical
extra-wide



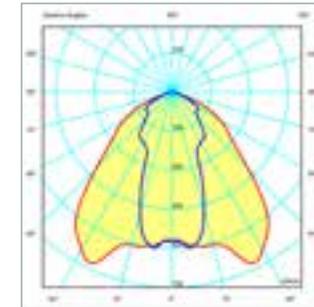
Symmetrical
medium



Symmetrical
narrow



Symmetrical
elliptical



TIGUA Led floodlight



Technical datasheet



TIGUA Led, the new floodlight by Palazzoli, is the best solution for lighting facades, signs, commercial spaces, sport centers, industrial sites and green areas.

The TIGUA Led body is made of EN 44300 die-cast aluminium alloy with a low content of copper, with an anti-corrosion treatment and the diffuser of an extra-clear tempered glass with 4 mm thickness, guaranteeing the maximum resistance of the device even in harsh environments.

The heat sink incorporated to the back of the fixture and the electronic components extend the device lifetime. The estimated lifetime is more than 100,000 hours.

TIGUA Led is equipped with an adjustable bracket in powder coated steel for the installation and adjustment on site. The optical unit is made of state-of-the-art LEDs, with a color temperature of 4000K and CRI \geq 80 with a choice of optical solutions for light distribution that can be symmetrical, asymmetrical, suited to roadway and directional lighting of specific areas.

TIGUA Led offers a wide range of accessories for the installation for pole-top adaption, together with the bracket for wall-mounting applications.

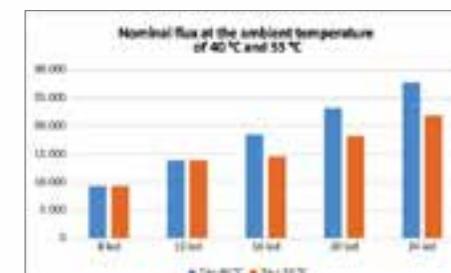
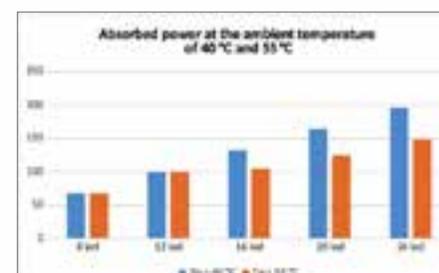
A wire guard protection accessory is also available. TIGUA Led is a high performance floodlight and the payback time is guaranteed and maintained thanks to the long-lasting devices.

Conformity to standards

Directive 2014/35/UE
EN 60598-1: 2015
EN 60598-2-1:1997
EN 60598-2-5: 2015
EN 60598-2-22: 2014
EN 62471: 2008
Directive 2014/30/UE
EN 62493: 2015
Directive 2011/65/UE
ENEC approval in progress

The photometric curves (LDT files) are available on www.palazzolilux.com

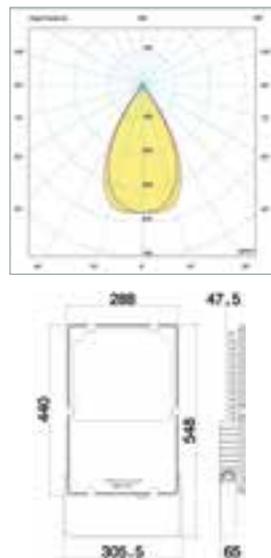
Body material	EN 44300 die-cast aluminium
Surface treatment	Passivation with zirconium-fluoro
Diffuser material	Extraclear tempered glass
Protection rating (IP as per IEC/EN 60529)	IP66
Painting	Hot polymerized non-toxic polyester
Color	RAL 7011
Resistance to impacts (IK rating as per IEC/EN 62262)	IK08
Corrosion class	C4 as per ISO 9223
Weight	6,5 kg
Device tilting	-135° - +135°
LED device efficiency	\geq 110lm/W
Color temperature	4000K
CRI	\geq 80
Insulation class	II
Rated voltage	200-240 V 50-60 Hz (others on request)
Protection against surge discharges	8 kV common mode 6 kV differential mode EN 61000
Residual flicker	< 1%
Photobiological risk	RG0
Power factor	\geq 0,95
Max cable section	1,5 mm ²
Entry cable diameter	7-13 mm
Estimated device lifetime	L80B20 @ 100.000h Tq=-30 °C - +40 °C
Storage temperature	-40 °C - +70 °C
Operating temperature	-30 °C - +40 °C on request up to +55 °C or other special configurations



Floodlight



LED professional floodlights
symmetrical light distribution
extra-wide beam
IP66

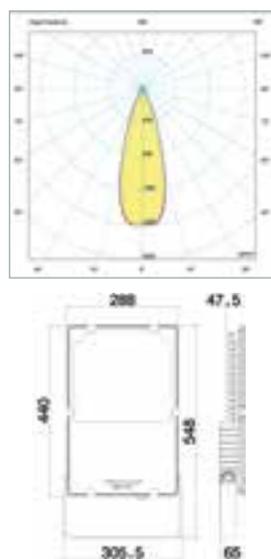


Power (W)	Nominal flux (lm) Tj= 25 °C	Version	Palazzoli code	Pack Q. ty
67	9.250	on-off standard	817008	1
99	13.875		817012	1
132	18.500		817016	1
164	23.125		817020	1
196	27.750		817024	1

Equipment included: bracket for wall-mounting. Electrical supply through rapid connector.
 Note: the declared values may be subject to a tolerance of +/- 7%.



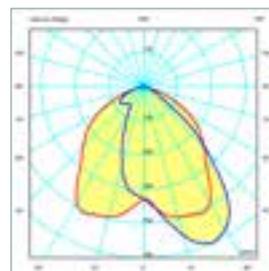
LED professional floodlights
symmetrical light distribution
narrow beam
IP66



Power (W)	Nominal flux (lm) Tj= 25 °C	Version	Palazzoli code	Pack Q. ty
67	9.250	on-off standard	817058	1
99	13.875		817062	1
132	18.500		817066	1
164	23.125		817070	1
196	27.750		817074	1

Equipment included: bracket for wall-mounting. Electrical supply through rapid connector.
 Note: the declared values may be subject to a tolerance of +/- 7%.

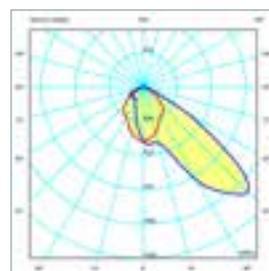
Floodlight



LED professional floodlights
asymmetrical light distribution
extra-wide beam
IP66

Power (W)	Nominal flux (lm) T _j = 25 °C	Version	Palazzoli code	Pack Q. ty
67	9.250	on-off standard	817108	1
99	13.875		817112	1
132	18.500		817116	1
164	23.125		817120	1
196	27.750		817124	1

Equipment included: bracket for wall-mounting. Electrical supply through rapid connector.
 Note: the declared values may be subject to a tolerance of +/- 7%.

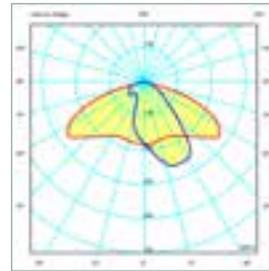


LED professional floodlights
asymmetrical light distribution
narrow beam
IP66

Power (W)	Nominal flux (lm) T _j = 25 °C	Version	Palazzoli code	Pack Q. ty
67	9.250	on-off standard	817158	1
99	13.875		817162	1
132	18.500		817166	1
164	23.125		817170	1
196	27.750		817174	1

Equipment included: bracket for wall-mounting. Electrical supply through rapid connector.
 Note: the declared values may be subject to a tolerance of +/- 7%.

Floodlight



LED professional floodlights
roadway light distribution
wide beam
IP66

Power (W)	Nominal flux (lm) T _j = 25 °C	Version	Palazzoli code	Pack Q. ty
67	9.250	on-off standard	817208	1
99	13.875		817212	1
132	18.500		817216	1
164	23.125		817220	1
196	27.750		817224	1

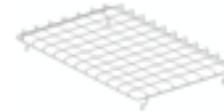
Equipment included: bracket for wall-mounting. Electrical supply through rapid connector.
 Note: the declared values may be subject to a tolerance of +/- 7%.

Accessories



Universal spigot adaptor for pole-head fixing
for Ø 60 mm and Ø 76 mm

Manufacturing material	Palazzoli code	Pack Q. ty
powder coated zinc steel	811908	1



Protective wire guard

Manufacturing material	Palazzoli code	Pack Q. ty
zinc steel	811911	1



Support for wall mounting
with 750 mm projection

Manufacturing material	Palazzoli code	Pack Q. ty
powder coated zinc steel	811914	1



Kit composed of collar and plate
for fixing on Ø 60 mm and Ø 80 mm pole

Manufacturing material	Palazzoli code	Pack Q. ty
zinc steel	811912	1

TIGUA Led suspension



Technical datasheet



TIGUA Led, the new low bay lighting fixture by Palazzoli, is the best solution for lighting industrial and commercial areas. The TIGUA Led body is made of EN 44300 die-cast aluminium alloy with a low content of copper, an anti-corrosion treatment and the diffuser of an extra-clear tempered glass with 4 mm thickness, guaranteeing the maximum resistance of the device even in harsh environments. The heat sink incorporated to the back of the fixture and the electronic components extend the device lifetime. The estimated lifetime is more than 120,000 hours.

The complete range with diffuser in polycarbonate is available for food industry in compliance with HACCP standards. All the TIGUA Led low bay versions can be equipped with emergency module for 1 or 3 hours. The optical unit is made of state-of-the-art LEDs, with a color temperature of 4000K and CRI≥80 with a choice of optical solutions for wide, medium, narrow and elliptical beams, with UGR < 22.

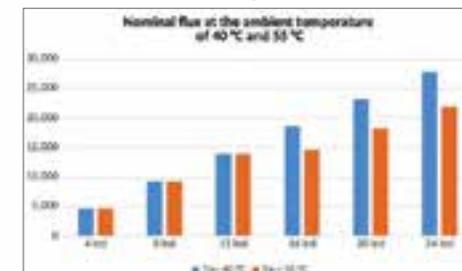
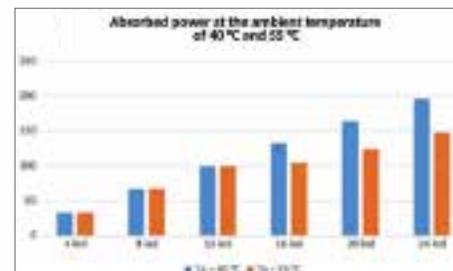
TIGUA Led offers a wide range of accessories for the installation that can be pendant, adjustable, ceiling or horizontal pole mounted. It is also available with a protective wire guard for the optical unit. TIGUA Led is a high performance floodlight and the payback time is guaranteed and maintained thanks to the long-lasting devices.

Conformity to standards

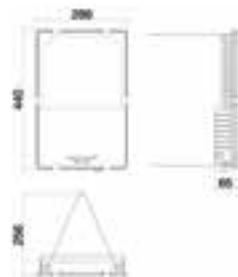
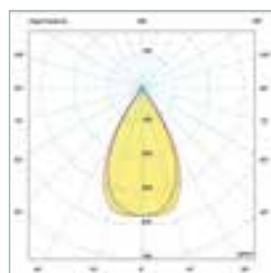
Directive 2014/35/UE
 EN 60598-1: 2015
 EN 60598-2-1:1997
 EN 60598-2-5: 2015
 EN 60598-2-22: 2014
 EN 62471: 2008
 Directive 2014/30/UE
 EN 62493: 2015
 Directive 2011/65/UE
 ENEC approval in progress

The photometric curves (LDT files) are available on www.palazzolilux.com

Body material	EN 44300 die-cast aluminium
Surface treatment	Passivation with zirconium-fluoro
Diffuser material	Extraclear tempered glass or polycarbonate
Protection rating (IP as per IEC/EN 60529)	IP66
Painting	Hot polymerized non-toxic polyester
Color	RAL 7011
Resistance to impacts (IK rating as per IEC/EN 62262)	IK08
Corrosion class	C4 as per ISO 9223
Weight	6,5 kg
LED device efficiency	≥ 105lm/W
Color temperature	4000K
CRI	≥ 80
Insulation class	I
Rated voltage	200 - 240 V 50-60 Hz (others in request)
Protection against surge discharges	8 kV common mode 6 kV differential mode EN 61000 (10 kV on request)
Residual flicker	< 1%
Photobiological risk	RG0
Unified Glare Rating (UGR)	< 22
Power factor	≥ 0,95
Max cable section	1,5 mm ²
Entry cable diameter	7-13 mm
Emergency battery lifetime	1-3 h
Emergency battery recharging time	30 h
Estimated device lifetime	L80B20 @ 120.000h Tq=-30 °C - +40 °C
Storage temperature	-40 °C - +70 °C
Operating temperature	-30 °C - +40 °C on request up to +55 °C or other special configurations



For industrial use



Low bay LED lighting fixtures
glass diffuser
extra wide beam
IP66

Power (W)	Nominal flux (lm) Tj= 25 °C	Version	Palazzoli code	Pack Q. ty
33	4.625	1-10 V dimmable standard	817304	1
67	9.250		817308	1
99	13.875		817312	1
132	18.500		817316	1
164	23.125		817320	1
196	27.750		817324	1
33	4.625	emergency	817305	1
67	9.250		817309	1
99	13.875		817313	1
132	18.500		817317	1
164	23.125		817321	1
196	27.750		817325	1

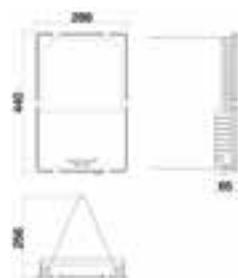
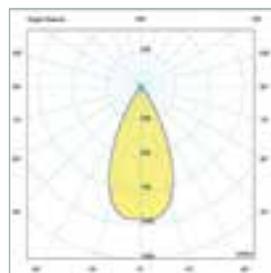
Equipment included: support brackets for double chain and busbar trunking.

Electrical supply through rapid connector.

Characteristics: typical height of installation between 4 and 7 meters.

Note: the declared values may be subject to a tolerance of +/- 7%.

DALI or other Wireless systems are available on request.



Low bay LED lighting fixtures
glass diffuser
medium beam
IP66

Power (W)	Nominal flux (lm) Tj= 25 °C	Version	Palazzoli code	Pack Q. ty
33	4.625	1-10 V dimmable standard	817354	1
67	9.250		817358	1
99	13.875		817362	1
132	18.500		817366	1
164	23.125		817370	1
196	27.750		817374	1
33	4.625	emergency	817355	1
67	9.250		817359	1
99	13.875		817363	1
132	18.500		817367	1
164	23.125		817371	1
196	27.750		817375	1

Equipment included: support brackets for double chain and busbar trunking.

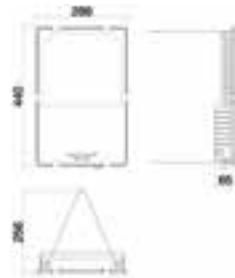
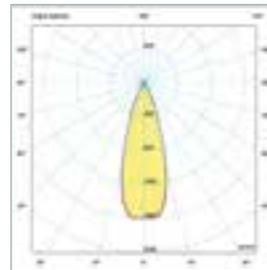
Electrical supply through rapid connector.

Characteristics: typical height of installation between 5 and 8 meters.

Note: the declared values may be subject to a tolerance of +/- 7%.

DALI or other Wireless systems are available on request.

For industrial use



Low bay LED lighting fixtures
glass diffuser
narrow beam
IP66

Power (W)	Nominal flux (lm) Tj= 25 °C	Version	Palazzoli code	Pack Q. ty
33	4.625	1-10 V dimmable standard	817404	1
67	9.250		817408	1
99	13.875		817412	1
132	18.500		817416	1
164	23.125		817420	1
196	27.750		817424	1
33	4.625	emergency	817405	1
67	9.250		817409	1
99	13.875		817413	1
132	18.500		817417	1
164	23.125		817421	1
196	27.750		817425	1

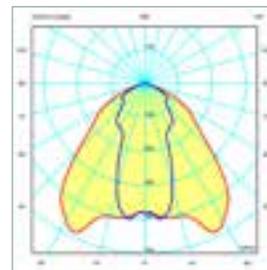
Equipment included: support brackets for double chain and busbar trunking.

Electrical supply through rapid connector.

Characteristics: typical height of installation between above 6 meters.

Note: the declared values may be subject to a tolerance of +/- 7%.

DALI or other Wireless systems are available on request.



Low bay LED lighting fixtures
glass diffuser
elliptical beam
IP66

Power (W)	Nominal flux (lm) Tj= 25 °C	Version	Palazzoli code	Pack Q. ty
33	4.625	1-10 V dimmable standard	817454	1
67	9.250		817458	1
99	13.875		817462	1
132	18.500		817466	1
164	23.125		817470	1
196	27.750		817474	1
33	4.625	emergency	817455	1
67	9.250		817459	1
99	13.875		817463	1
132	18.500		817467	1
164	23.125		817471	1
196	27.750		817475	1

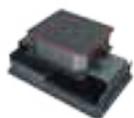
Equipment included: support brackets for double chain and busbar trunking.

Electrical supply through rapid connector.

Characteristics: suitable to be installed between the aisles of grocery stores, etc.

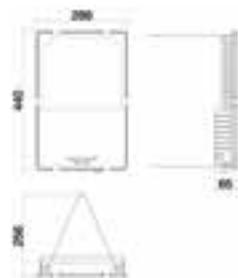
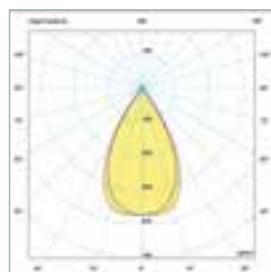
Note: the declared values may be subject to a tolerance of +/- 7%.

DALI or other Wireless systems are available on request.



EMERGENCY In case of emergency lighting fixtures without UPS, you need code 811923 for 1h or code 811924 for 3h.

For use in food industry (HACCP)



Low bay LED lighting fixtures
HACCP for food industry
polycarbonate diffuser
extra-wide beam
IP66

Power (W)	Nominal flux (lm) Tj= 25 °C	Version	Palazzoli code	Pack Q. ty
33	4.625	1-10 V dimmable standard	817504	1
67	9.250		817508	1
99	13.875		817512	1
132	18.500		817516	1
164	23.125		817520	1
196	27.750		817524	1
33	4.625	emergency	817505	1
67	9.250		817509	1
99	13.875		817513	1
132	18.500		817517	1
164	23.125		817521	1
196	27.750		817525	1

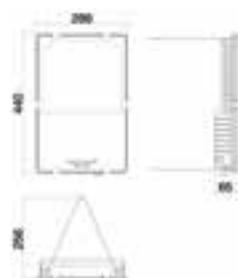
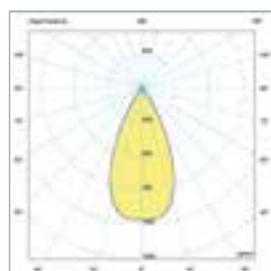
Equipment included: support brackets for double chain and busbar trunking.

Electrical supply through rapid connector.

Characteristics: typical height of installation between 4 and 7 meters.

Note: the declared values may be subject to a tolerance of +/- 7%.

DALI or other Wireless systems are available on request.



Low bay LED lighting fixtures
HACCP for food industry
polycarbonate diffuser
medium beam
IP66

Power (W)	Nominal flux (lm) Tj= 25 °C	Version	Palazzoli code	Pack Q. ty
33	4.625	1-10 V dimmable standard	817554	1
67	9.250		817558	1
99	13.875		817562	1
132	18.500		817566	1
164	23.125		817570	1
196	27.750		817574	1
33	4.625	emergency	817555	1
67	9.250		817559	1
99	13.875		817563	1
132	18.500		817567	1
164	23.125		817571	1
196	27.750		817575	1

Equipment included: support brackets for double chain and busbar trunking.

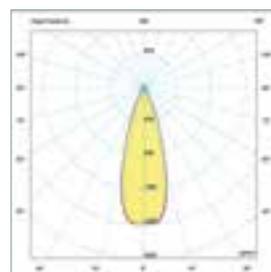
Electrical supply through rapid connector.

Characteristics: typical height of installation between 5 and 8 meters.

Note: the declared values may be subject to a tolerance of +/- 7%.

DALI or other Wireless systems are available on request.

For use in food industry (HACCP)



Low bay LED lighting fixtures
HACCP for food industry
polycarbonate diffuser
narrow beam
IP66

Power (W)	Nominal flux (lm) Tj= 25 °C	Version	Palazzoli code	Pack Q. ty
33	4.625	1-10 V dimmable standard	817604	1
67	9.250		817608	1
99	13.875		817612	1
132	18.500		817616	1
164	23.125		817620	1
196	27.750		817624	1
33	4.625	emergency	817605	1
67	9.250		817609	1
99	13.875		817613	1
132	18.500		817617	1
164	23.125		817621	1
196	27.750		817625	1

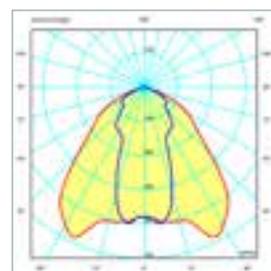
Equipment included: support brackets for double chain and busbar trunking.

Electrical supply through rapid connector.

Characteristics: typical height of installation between above 6 meters.

Note: the declared values may be subject to a tolerance of +/- 7%.

DALI or other Wireless systems are available on request.



Low bay LED lighting fixtures
HACCP for food industry
polycarbonate diffuser
elliptical beam
IP66

Power (W)	Nominal flux (lm) Tj= 25 °C	Version	Palazzoli code	Pack Q. ty
33	4.625	1-10 V dimmable standard	817654	1
67	9.250		817658	1
99	13.875		817662	1
132	18.500		817666	1
164	23.125		817670	1
196	27.750		817674	1
33	4.625	emergency	817655	1
67	9.250		817659	1
99	13.875		817663	1
132	18.500		817667	1
164	23.125		817671	1
196	27.750		817675	1

Equipment included: support brackets for double chain and busbar trunking.

Electrical supply through rapid connector.

Characteristics: suitable to be installed between the aisles of grocery stores, etc.

Note: the declared values may be subject to a tolerance of +/- 7%.

DALI or other Wireless systems are available on request.



EMERGENCY In case of emergency lighting fixtures without UPS, you need code 811923 for 1h or code 811924 for 3h.

Accessories



Support bracket for 0 - 90° adjustable double chain suspension

Manufacturing material	Palazzoli code	Pack Q. ty
zinc steel	811919	1



Support brackets for horizontal pole mounting Ø 60 mm

Manufacturing material	Palazzoli code	Pack Q. ty
zinc steel	811920	1



Support bracket for ceiling mounting

Manufacturing material	Palazzoli code	Pack Q. ty
zinc steel	811916	1



Support bracket for 0 - 90° adjustable mounting on catenary wire

Manufacturing material	Palazzoli code	Pack Q. ty
zinc steel	811921	1



Kit for emergency

Manufacturing material	Emergency battery lifetime	Palazzoli code	Pack Q. ty
boxes in aluminium alloy and bracket in zinc steel	1h	811923	1
	3h	811924	1

Equipment included: the emergency kit is complete with junction box, battery, inverter and support for rapid pendant suspension.

Characteristics: No. 1 M20 entry; No. 1 output with connector.

Note: the support is suited for mounting fixed on double chain.

Nominal flux (lm) Tj= 25 °C	Flux in emergency (lm) 1-3 h
4.625	995
9.250	
13.875	
18.500	
23.125	
27.750	

Dimensions

Wall mounting with bracket



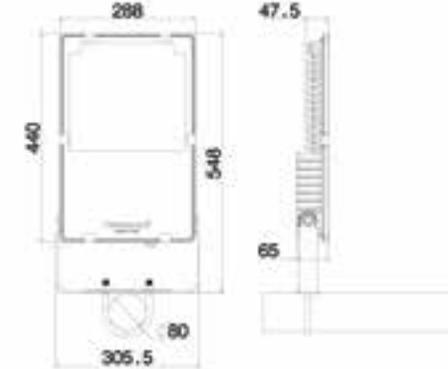
Pole-head mounting



Wall mounting with projecting bracket



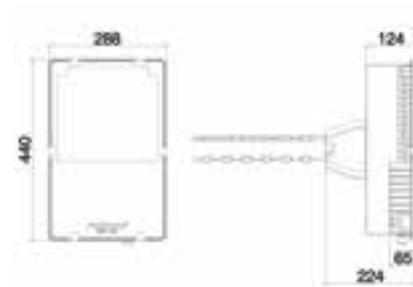
Pole mounting with collar



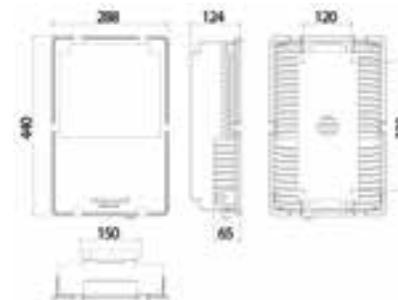
Double chain suspension



Adjustable double chain suspension



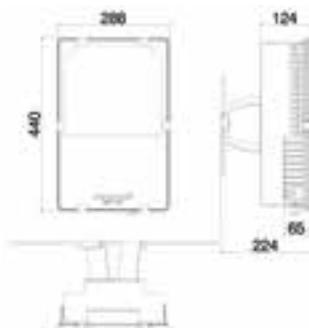
Ceiling mounting



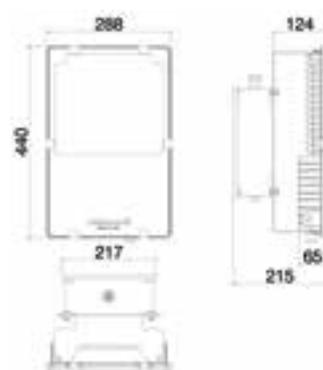
Horizontal pole mounting



Catenary wire suspension



Emergency



Complete offer



TIGUA Led range is also complemented with specific additional solutions for roadway, tunnel, metro and railway applications.

These versions can be easily installed thanks to the specially designed fixing accessories.

Led solutions for each application

	RINO Led	MITO Led	TIGUA Led Floodlight	TIGUA Led Low bay	TIGUA Led Roadway	TIGUA Led Tunnel
	Stainless steel Powder coated zincd steel IP66 L80/B20 50.000h CRI ≥ 80	Aluminium EN 46100 IP66/P67 L80/B20 110.000h CRI ≥ 80	Aluminium EN 44300 IP66 L80/B20 100.000h CRI ≥ 80	Aluminium EN 44300 IP66 L80/B20 120.000h CRI ≥ 80	Aluminium EN 44300 IP66 L90/B10 90.000h CRI ≥ 70	Aluminium EN 44300 IP66 L80/B10 90.000h CRI ≥ 70
	Protection against surge discharges 2 kV	Protection against surge discharges 6-10 kV	Protection against surge discharges 6-8 kV	Protection against surge discharges 6-8 kV	Protection against surge discharges 6-8 kV	Protection against surge discharges 6-8 kV
						
	2250 - 8000 lm	13230 - 26460 lm	9250 - 27750 lm	4625 - 27750 lm	5360 - 20100 lm	5360 - 60300 lm
Industry	✓	✓		✓		
Atex	✓	✓				
Floodlight		✓	✓			
Roadway					✓	
Tunnel	✓					✓
Marine	✓					

Lighting since 1904

High performances and reliability are well-recognized values of all the Palazzoli product ranges: electrical and lighting equipment for Industrial, Hazardous areas (Atex), Tunnel and Marine applications.

Inside the headquarters of Brescia, located in the north of Italy, our staff of over 300 people serve 5000 dealers worldwide.

The Palazzoli Group, including our two partners in UK, Lewden and CGD, produces a turnover of more than 60 million Euros.

With a comprehensive range of continuously updated products, designers and installers can find solutions incorporating the latest technology, engineered to give long life and durability, even in the most demanding areas. LED lighting fixtures for potentially explosive atmospheres (ATEX) and multi-chip LED lighting fixtures for tunnels are clear examples of these features.



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