

X-TIGUA

Up to
120.000 lm

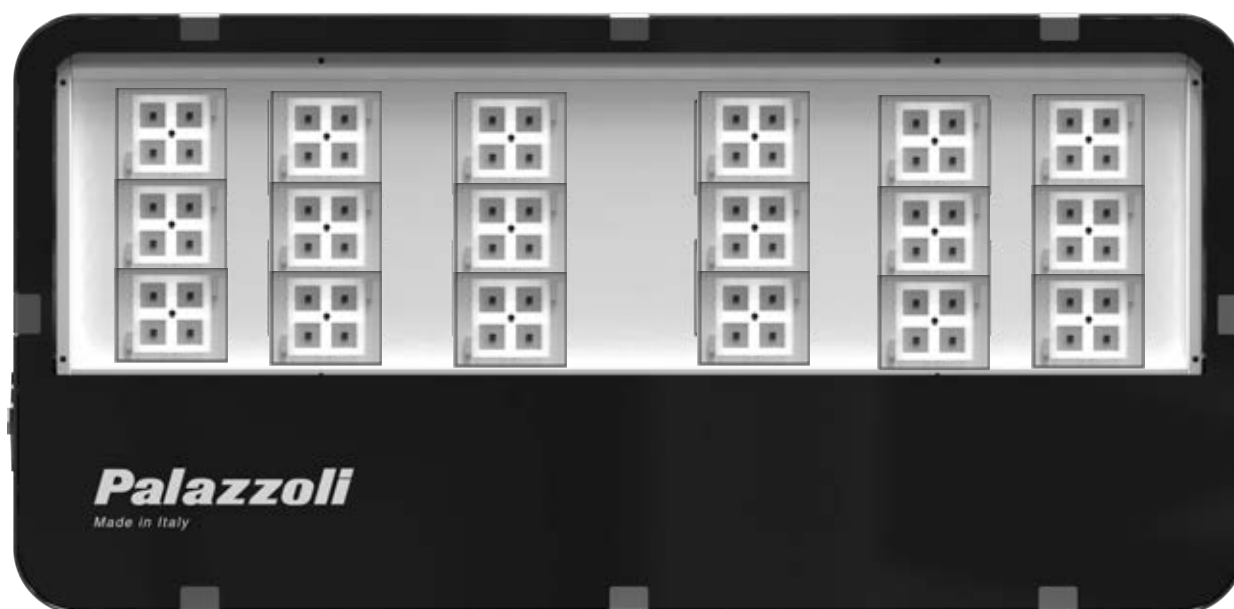
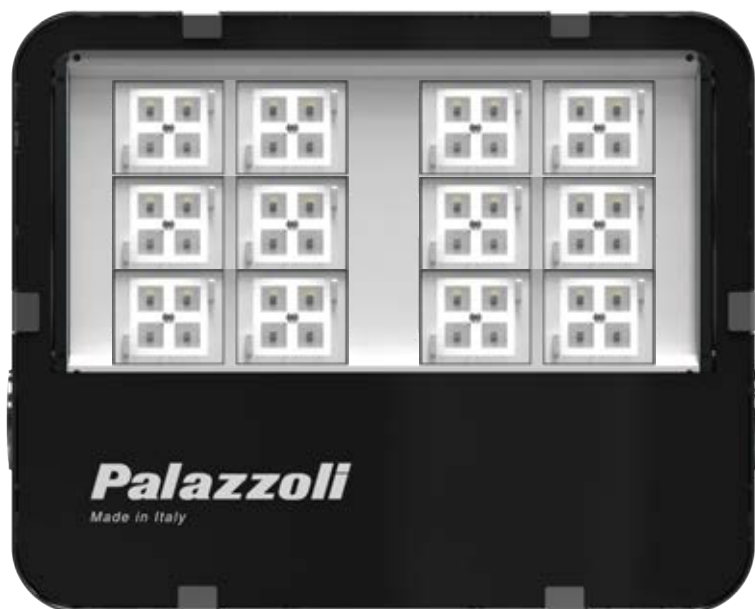


LIGHTING

Palazzoli

Multiplying the power of light

X-TIGUA is a new range of high luminous flux luminaires, offering floodlights, suspension luminaires and road tunnel light fixtures. The modular design of X-TIGUA means it can be adapted for a wide range of installation requirements.



High performance

A system of high-quality internal components (LEDs and power supply systems) is built into the body, made in a low-copper aluminium alloy (aeronautical grade), guaranteeing:

- High performance
- Energy saving
- Resistance in extreme environments

X-TIGUA fulfilling all illumination requirements

Floodlight

Page 4



The floodlights are available in 4 sizes, S - M - XL - XXL, ranging from 30.000 lm to 120.000 lm.

Perfect for **illuminating sports facilities**, large open spaces, slip roads, junctions and roundabouts.

Suspension

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The suspension light fixtures are in 2 sizes, M - L, ranging from 21.000 lm to 49.000 lm.

Perfect for illuminating great heights.

A range designed for high temperature environments up to +70°C.



Tunnel

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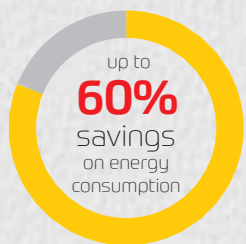
The tunnel range consists of:

X-TIGUA floodlights, in 2 sizes, M - L, ranging from 19.000 lm to 49.000 lm, ideal for **reinforcement lighting**.

TIGUA floodlights, size S, ranging from 4.000 lm to 16.000 lm, **ideal for permanent lighting**.



Floodlight



Sports facilities

X-TIGUA is the ideal lighting solution for outdoor sports facilities, from tennis courts and five-a-side football pitches to outdoor pools and small 11-a-side football stadiums.

The wide range of optics can meet any facility's needs and guarantees superbly uniform illuminance and optimal visual comfort for players and spectators alike. The body of each floodlight has a built-in bracket for tilting it into the optimal position. X-TIGUA can be mounted onto poles or on fixed platforms on light towers



Open spaces

X-TIGUA is perfect for illuminating ports, airports, car parks, depots and more. This floodlight guarantees an energy efficient light fitting and can ensure a sizeable saving even over a short period of time, as there is no maintenance required and it brings a fast return on investment.

A system of high-quality internal components guarantees increased reliability, safety and durability.



Slip roads, junctions and roundabouts

X-TIGUA is a new lighting system, ideal for illuminating slip roads, junctions, roundabouts, car parks, roads within industrial areas and more.

This floodlight can be installed onto light towers, while the technical design of the lighting system ensures the roadway below is correctly lit, offering excellent visibility and highlighting any potentially dangerous areas.





Corrosion resistant

A body made in aluminium alloy with low-copper content and passivation treatment and coating makes this an ideal choice for installation where chemicals are present.



Visual comfort

This range of optics consists of 2 symmetrical beams, 4 asymmetrical beams; this makes it suitable for all kinds of installations, while guaranteeing optimum visual comfort.



Easy to be installed

The bracket is equipped with a goniometer and in-built grub screw, allowing the floodlight to be adjusted around -110° to $+110^{\circ}$. The driver, built into the luminaire, allows for fast and secure cabling.



Chromatic conservation

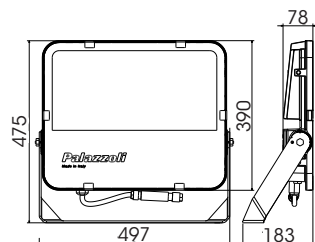
PMMA (polymethylmethacrylate) lenses prevent the yellowing process. This allows to preserve the chromatic performances over time.

Available sizes

FLOODLIGHT

size M

497x475x78

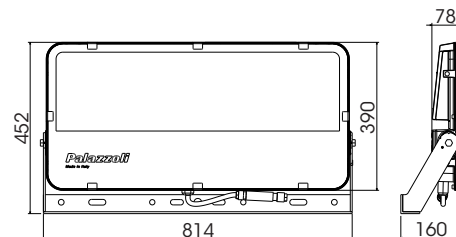


Flux ranges from 30.000 to 40.000 lm,
comparable to a 400W JM
(metal-halide) lamp.
Installation height: 9 - 15 m.

Ideal for:
amateur sports facilities and
perimeter lighting for large open spaces.

size L

814x452x78

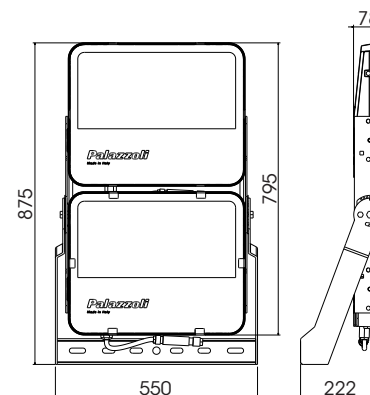
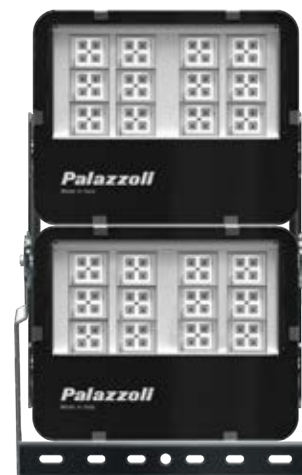


Flux ranges from 50.000 to 60.000 lm
comparable to a 600W SAP
(sodium high pressure) lamp.
Installation height: 15 - 20 m.

Ideal for:
large areas such as ports, airports and large
car parks.

size XL

550x875x78

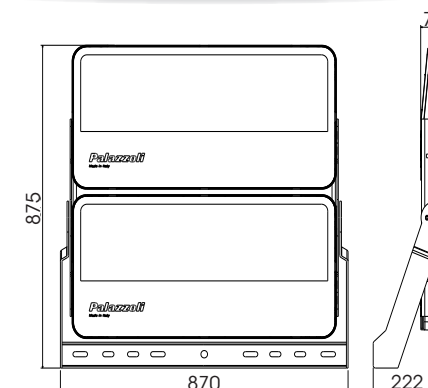


Flux ranges from 82.000
comparable to a 1000W JM
(metal-halide) lamp.
Installation height: 20 - 30 m.

Ideal for:
light towers on roads or small football
stadiums.

size XXL

870x875x78



Flux ranges from 100.000 to 120.000 lm
comparable to a 2000W JM
(metal-halide) lamp.
Installation height: 30 - 40 m.

Ideal for:
small football stadiums.

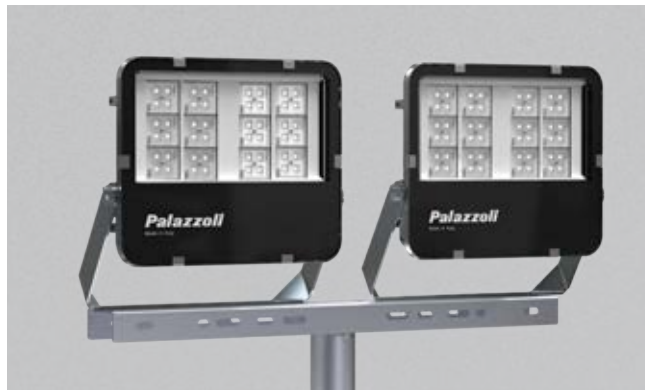
Installation methods

FLOODLIGHT



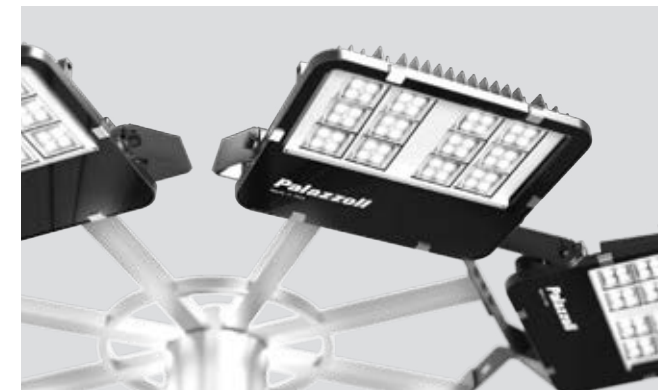
Wall-mounted

The robust supplied bracket gives wall-mounted floodlights a rotation range between -110° and $+110^{\circ}$. A goniometer is built into the luminaire body to facilitate its positioning.



Pole-mounted

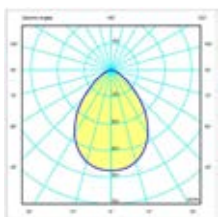
With accessories (floodlight-bearing cross beams, codes 818990 and 818991), the luminaires can be quickly installed on poles (60 - 76mm in diameter). There are various fixing points for installing a single luminaire or multiple luminaires.



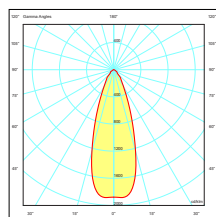
Light tower

The supplied bracket allows the floodlights to be installed quickly and securely onto rings and onto the floodlight-bearing supports on various fixed and mobile light towers. The power supply components inside the luminaire simplify the mounting process.

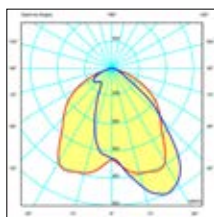
Precision optics



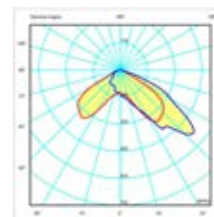
Symmetrical 81°
extra wide beam



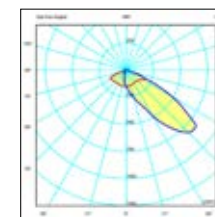
Symmetrical 36°
narrow beam



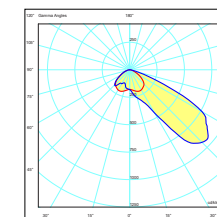
Asymmetrical 23°
extra wide beam



Asymmetrical 50°
extra wide beam



Asymmetrical 43°
narrow beam



Asymmetrical 55°
narrow beam



X-TIGUA, the new Palazzoli floodlight, is the best way to illuminate sports facilities, large open spaces, slip roads, junctions and roundabouts. A die-cast aluminium body with very low copper content, anti-corrosion treatment, and a 4mm thick diffuser in extra-clear tempered glass guarantees the durability of this floodlight. It is available in 4 floodlight sizes (M, L, XL, XXL) providing actual output up to 120000 lm. The rear heat sink allows for excellent heat management and increases the longevity of the luminous flux. The power supply unit guarantees excellent light quality with <1% flicker, allowing for exceptional video surveillance.

The input surge protection secures the device against surges up to 8kV, extending product lifetime, even when used in outdoor installations. Latest-generation CSP (Chip Scale Package) LEDs can maintain luminous flux over a period of more than 230,000 hours. The 4000K colour temperature and CRI≥80 guarantee ideal lighting quality wherever the product is installed. The optics are made using non-ageing, UV-resistant PMMA lenses with >90% efficiency and >95% transparency. The range consists of 2 symmetrical beams, 4 asymmetrical beams which combine to make the perfect solution for various technical lighting design projects. The connector supplied with the luminaire allows for fast and secure cabling. X-TIGUA offers a wide range of accessories for mounting luminaires on walls or poles, or installing them on light towers. As such, it is easily adapted for varied lighting requirements.

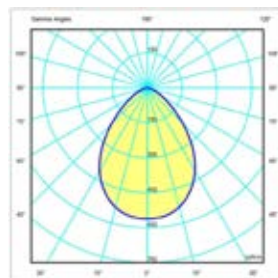
A front grid is also available to protect the unit.

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

Body material	Low-copper aluminium alloy (EN 44300)
Surface treatment	Passivation with fluoro-zirconium treatment
Surface coating/colour	Non-toxic polyester, anti UV, kiln-polymerised coating, colour: RAL 7011
Diffuser material	Extra clear tempered glass, thickness: 4mm
Net weight	9.5 kg - 13.5 kg - 23.2 kg - 35 Kg
Protection rating	IP66 as per IEC/EN 60598-1
Impact resistance	IK08 as per IEC/EN 62262 + IEC/TR 62696
Corrosion class	C4 (ISO9223)
Mounting system	U bracket with adjustment range of -110° to 110°
Optics features	Non-ageing, UV-resistant PMMA lenses with >90% efficiency and >95% transparency
Actual luminaire efficiency	Up to 133 lm/W
Colour temperature	4,000K (other temperatures on request)
Colour rendering index values	CRI ≥ 70 (good - according to EN 62717 criteria)
Colour consistency	MacAdam 4-step
Photobiological risk	RG0 - Exempt Group (EN 62471)
Residual flicker	< 1%
Lifetime	L90 B10 @110.000H Tq=40°C L90 B10 @230.000H Tq=25°C
Insulation class	I
Supply voltage	220-240V 0/50/60Hz
Surge protection	10 kV common mode, 6kV differential mode (EN 61000-4-5)
Power factor	≥ 0,95
Ambient functioning temp.	Min -30°C - Max +35°C
Power supply	Quick connector
Max. conductor cross section	2,5 mm²
Entry cable diameter	Min 7 mm; Max 13 mm
Wind load surface	Side M 0,04 m² - Front M 0,18 m²; Side L 0,04 m²; Front L 0,30 m²; Side XL 0,15 m² - Front XL 0,4 m²; Side XXL 0,15 m² - Front XXL 0,65 m²
Warranty	7 years
Ambient storage temp.	Min -40°C; Max +70°C
Certification and approval marks	CE, ENEC, DIN 18032-3/EN 13964
Directives	2014/30/UE (EMC), 2014/35/UE (LVD), 2011/65/UE (RoHS), 2012/19/UE (RAEE)
Product standards	EN 60598-1, EN 60598-2-1, EN 60598-2-5, EN 62471, EN 62493, IEC/TR 62778, EN55015, EN 61547, EN 61000-3-2, EN 61000-3-3, EN 50581, EN 13964 Annex D, EN 60598-2-24

Floodlight

230.000h



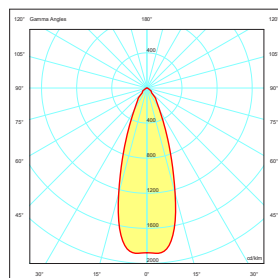
Professional LED floodlights
with **81° symmetrical extra wide beam optics**
IP66

No. of LEDs	Light fixture size	Device power (W)	Nominal flux (lm) Tj= 25 °C	Output flux (lm) Tq= 25 °C	Version	Palazzoli code	Pack Qty
36	M 497x475	236	37.665	31.388	DALI	838036DA	1
48		309	49.316	41.097		838048DA	1
60	L 814x452	368	58.733	48.944		838060DA	1
72		442	70.543	59.228		838072DA	1
96	XL 550x875	618	98.632	82.194		838096DA	1
120	XXL 870x875	736	117.500	97.888		838012DA	1
144		884	141.000	118.456		838014DA	1

Equipment included: wall-mounting bracket.

Power supply: 2Px1.5 mm² quick connector and 1.5 mm² H07RN-F cable, 0.2m in length.

Notes: the stated values may be subject to a +/- 7% tolerance.



Professional LED floodlights
with **36° symmetrical narrow beam optics**
IP66

No. of LEDs	Light fixture size	Device power (W)	Nominal flux (lm) Tj= 25 °C	Output flux (lm) Tq= 25 °C	Version	Palazzoli code	Pack Qty
36	M 497x475	236	37.665	31.388	DALI	838136DA	1
48		309	49.316	41.097		838148DA	1
60	L 814x452	368	58.733	48.944		838160DA	1
72		442	70.543	59.228		838172DA	1
96	XL 550x875	618	98.632	82.194		838196DA	1
120	XXL 870x875	736	117.500	97.888		838112DA	1
144		884	141.000	118.456		838114DA	1

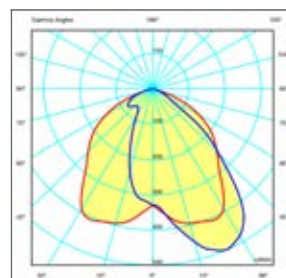
Equipment included: wall-mounting bracket.

Power supply: 2Px1.5 mm² quick connector and 1.5 mm² H07RN-F cable, 0.2m in length.

Notes: the stated values may be subject to a +/- 7% tolerance.

Floodlight

230.000h



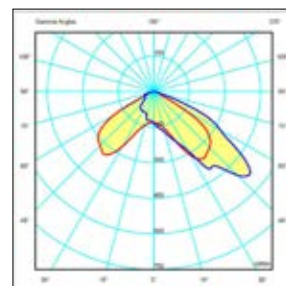
Professional LED floodlights
with **23° asymmetrical extra wide beam optics**
IP66

No. of LEDs	Light fixture size	Device power (W)	Nominal flux (lm) T _j = 25 °C	Output flux (lm) T _q = 25 °C	Version	Palazzoli code	Pack Qty
36	M 497x475	236	37.665	31.388	DALI	838236DA	1
48		309	49.316	41.097		838248DA	1
60	L 814x452	368	58.733	48.944		838260DA	1
72		442	70.543	59.228		838272DA	1
96	XL 550x875	618	98.632	82.194		838296DA	1
120	XXL 870x875	736	117.500	97.888		838212DA	1
144		884	141.000	118.456		838214DA	1

Equipment included: wall-mounting bracket.

Power supply: 2Px1.5 mm² quick connector and 1.5 mm² H07RN-F cable, 0.2m in length.

Notes: the stated values may be subject to a +/- 7% tolerance.



Professional LED floodlights
with **50° asymmetrical extra wide beam optics**
IP66

No. of LEDs	Light fixture size	Device power (W)	Nominal flux (lm) T _j = 25 °C	Output flux (lm) T _q = 25 °C	Version	Palazzoli code	Pack Qty
36	M 497x475	236	37.665	31.388	DALI	838736DA	1
48		309	49.316	41.097		838748DA	1
60	L 814x452	368	58.733	48.944		838760DA	1
72		442	70.543	59.228		838772DA	1
96	XL 550x875	618	98.632	82.194		838796DA	1
120	XXL 870x875	736	117.500	97.888		838712DA	1
144		884	141.000	118.456		838714DA	1

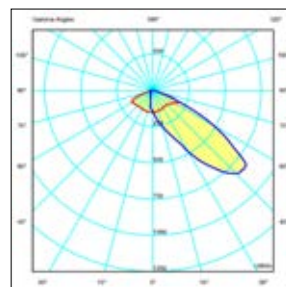
Equipment included: wall-mounting bracket.

Power supply: 2Px1.5 mm² quick connector and 1.5 mm² H07RN-F cable, 0.2m in length.

Notes: the stated values may be subject to a +/- 7% tolerance.

Floodlight

230.000h



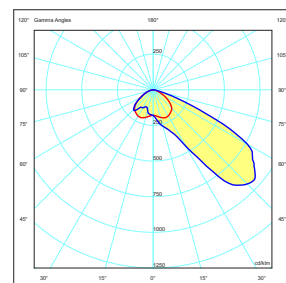
Professional LED floodlights
with **43° asymmetrical narrow beam optics**
IP66

No. of LEDs	Light fixture size	Device power (W)	Nominal flux (lm) Tj= 25 °C	Output flux (lm) Tq= 25 °C	Version	Palazzoli code	Pack Qty
36	M 497x475	236	37.665	31.388	DALI	838336DA	1
48		309	49.316	41.097		838348DA	1
60	L 814x452	368	58.733	48.944		838360DA	1
72		442	70.543	59.228		838372DA	1
96	XL 550x875	618	98.632	82.194		838396DA	1
120	XXL 870x875	736	117.500	97.888		838312DA	1
144		884	141.000	118.456		838314DA	1

Equipment included: wall-mounting bracket.

Power supply: 2Px1.5 mm² quick connector and 1.5 mm² H07RN-F cable, 0.2m in length.

Notes: the stated values may be subject to a +/- 7% tolerance.



Professional LED floodlights
with **55° asymmetrical narrow beam optics**
IP66

No. of LEDs	Light fixture size	Device power (W)	Nominal flux (lm) Tj= 25 °C	Output flux (lm) Tq= 25 °C	Version	Palazzoli code	Pack Qty
36	M 497x475	236	37.665	31.388	DALI	838536DA	1
48		309	49.316	41.097		838548DA	1
60	L 814x452	368	58.733	48.944		838560DA	1
72		442	70.543	59.228		838572DA	1
96	XL 550x875	618	98.632	82.194		838596DA	1
120	XXL 870x875	736	117.500	97.888		838512DA	1
144		884	141.000	118.456		838514DA	1

Equipment included: wall-mounting bracket.

Power supply: 2Px1.5 mm² quick connector and 1.5 mm² H07RN-F cable, 0.2m in length.

Notes: the stated values may be subject to a +/- 7% tolerance.

Floodlight accessories



Cross beam
for pole-top mounting
up to 2 light fixtures

Manufacturing material	Light fixture size	Palazzoli code	Pack Qty
galvanised steel	M,L,XL	818990	1

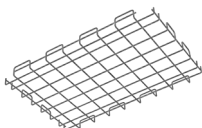
Notes: on this cross beam you can fix up to 2 floodlights having size M, L, XL. XXL floodlights will be fixed on the cross beam having code 818991. This cross beam can be fixed on poles having a diameter from 60 to 76mm.



Cross beam
for pole-top mounting
up to 4 light fixtures

Manufacturing material	Light fixture size	Palazzoli code	Pack Qty
galvanised steel	M,L,XL,XXL	818991	1

Notes: on this cross beam you can fix up to 2 floodlights having size L, XXL or 4 floodlights having size M, XL. This cross beam can be fixed on poles having a diameter from 60 to 76mm.



Protection grid
for X-TIGUA floodlights

Manufacturing material	Light fixture size	Palazzoli code	Pack Qty
galvanised steel	M, XL	818992	1
	L, XXL	818993	1

Notes: for floodlights having size XL and XXL, please use 2 grids.



Suspension



Shipyards

The high luminous flux of X-TIGUA makes it ideal for lighting the great heights found in shipyards. The low-copper aluminium alloy body receives a double passivation treatment and coating to maximise its resistance in corrosive environments. The IP66 protection rating guarantees total protection against the infiltration of dust and water from powerful jets.



Steel plants

X-TIGUA is ideal for extreme environments such as steelworks and metallurgical plants. Products in the VHT range can be installed in any environment where temperatures reach +70°C. The components specially selected for this product guarantee a 130 lm/W efficiency.



Hangars

X-TIGUA produces lighting design solutions for installation at heights of over 15 metres. Inside a hangar, Palazzoli suspension luminaires can provide uniform lighting for the area below, guaranteeing over 120,000 hours of performance and so significantly reducing maintenance costs from the outset.





Easy to adjust

DALI technology is supplied with the whole range, allowing for intelligent control. Customisable adjustments allow for further energy savings.



Corrosion resistant

A body made in aluminium alloy with low-copper content and passivation treatment and coating makes this an ideal choice for installation where chemicals are present.



Reliable

Latest-generation LEDs can maintain luminous flux over time and have a lifetime of over 100,000 hours in ambient temperatures of 70°C.



Efficient in very high temperatures

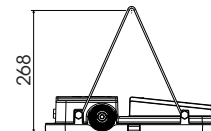
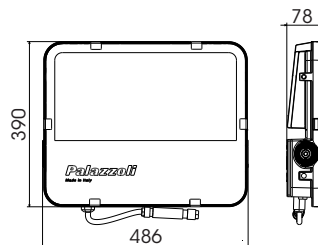
Products in the VHT (Very High Temperature) range can be installed in ambient temperatures up to + 70°C and have a luminaire efficiency over 130 lm/W.

Sizes and temperature available

SUSPENSION

size **M**

486x390x78

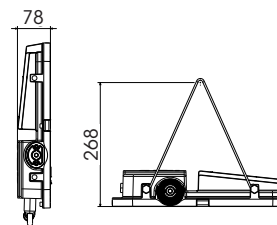
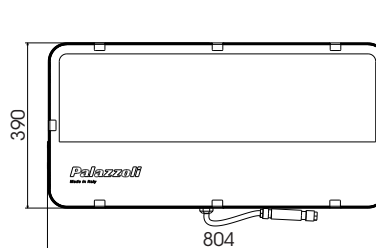
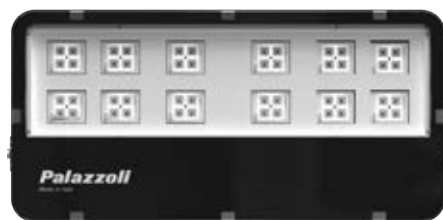


Flux ranges from 21000 to 33000 lm,
comparable to a 400W JM
(metal-halide) lamp.

Installation height: 9 to 20m.

size **L**

804x390x78



Flux ranges from 30000 to 49000 lm,
comparable to a 600W SAP
(sodium high pressure) lamp.

Installation height: 15 - 25 m.

VHT

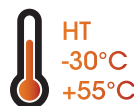
(Very High Temperature)



VHT
-30°C
+70°C

HT

(High Temperature)



HT
-30°C
+55°C

Standard



-30°C
+45°C

Installation methods

SUSPENSION



Suspension mounting

The two set brackets supplied allow for fast and secure attachment.



Adjustable double chain

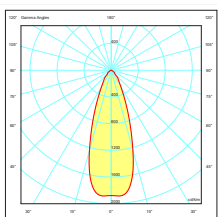
Product codes 819994 and 819995 give the luminaire a 0° to 90° rotation range, allowing the luminous flux to be pointed in the optimum direction.



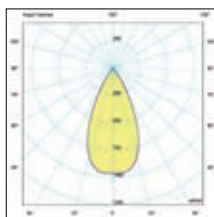
Ceiling mounting

The ceiling mounting kit, codes 81996 and 81997, allow the luminaire to be easily installed on ceilings.

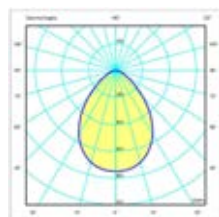
Precision optics



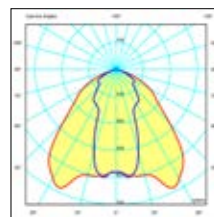
Symmetrical 36°
narrow beam



Symmetrical 55°
medium beam



Symmetrical 81°
extra wide beam



95°x41° elliptical
beam

UPON REQUEST: other product codes in this catalogue are available in all versions by combining the optics and operating temperatures indicated for this range.

Elliptical optics are available upon request



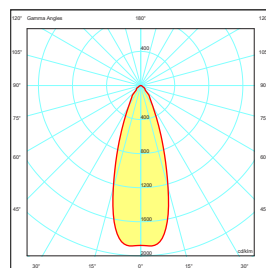
X-TIGUA, Palazzoli's new suspension system, is the optimum lighting solution for places with high ambient temperatures, such as in steelworks or at the great heights required in shipyards and hangars.

A die-cast aluminium body with very low copper content, anti-corrosion treatment, and a 4mm thick diffuser in extra-clear tempered glass guarantees the durability of this luminaire. It is available in 2 sizes (M and L), providing actual output of up to 49000 lm. The rear heat sink allows for excellent heat management and increases the longevity of the luminous flux. The product is equipped with DALI drivers, which allow point-to-point adjustment of the lights, resulting in a further energy saving. The power supply unit guarantees excellent light quality with <1% flicker, allowing for video surveillance and for installation where there are rapidly rotating machines. The input surge protection secures the device against surges up to 8kV, extending product lifetime by protecting the LEDs from possible overloading. Latest-generation CSP (Chip Scale Package) LEDs can maintain luminous flux over a period of more than 120,000 hours, even in ambient temperatures up to +55°C or 100,000 hours in temperatures up to +70°C. The 4000K colour temperature and CRI≥80 guarantee ideal lighting quality wherever the product is installed. The optics are made using non-ageing, UV-resistant PMMA lenses with >90% efficiency and >95% transparency. The connector supplied with the luminaire allows for fast and secure cabling. X-TIGUA is equipped with quick connecting suspension brackets and, with specific accessories, can be ceiling mounted or hung by double chain. X-TIGUA is certified to withstand temperatures between -30°C +45°C. For extreme environments such as steelworks or rolling mills, the VHT (Very High Temperature) version can operate at up to 70°C and the HT version up to 55°C.

Le curve fotometriche (file LDT) sono disponibili sul sito www.palazzoli.com

Body material	Low-copper aluminium alloy (EN 44300)
Surface treatment	Passivation with fluoro-zirconium treatment
Surface coating/colour	Non-toxic polyester, anti UV, kiln-polymerised coating, colour: RAL 7011
Diffuser material	Extra clear tempered glass, thickness: 4mm
Net weight	7.5 kg - 12.1 kg
Protection rating	IP66 as per IEC/EN 60598-1
Impact resistance	IK08 as per IEC/EN 62262 + IEC/TR 62696
Corrosion class	C4 (ISO9223)
Mounting system	Double chain brackets
Optics features	Non-ageing, UV-resistant PMMA lenses with >90% efficiency and >95% transparency
Actual luminaire efficiency	Up to 130 lm/W
Colour temperature	4,000K (other temperatures on request)
Colour rendering index values	CRI ≥ 80 (good - according to EN 62717 criteria)
Colour consistency	MacAdam 4-step
Photobiological risk	RG0 - Exempt Group (EN 62471)
Glare index	UGR <22; UGR <25
Residual flicker	< 1%
Lifetime	L80 B20 @120.000H Tq=40°C; Tq=55°C (versione HT); L80 B20 @100.000H Tq=70°C (versione VHT);
Insulation class	I
Supply voltage	220-240V 50/60Hz
Surge protection	8 kV common mode, 6kV differential mode (EN 61000-4-5)
Power factor	≥ 0.95
Ambient functioning temp.	Min -30°C to Max +45°C; Max +55°C (HT version); Max +70°C (VHT version);
Power supply	Quick connector
Max. conductor cross section	1.5 mm²
Entry cable diameter	Min 7 mm; Max 13 mm
Warranty	7 years
Ambient storage temp.	Min -40°C; Max +70°C
Certification and approval marks	CE, ENEC, DIN 18032-3/EN 13964
Directives	2014/30/UE (EMC), 2014/35/UE (LVD), 2011/65/UE, 2012/19/UE (RAEE)
Product standards	EN 60598-1, EN 60598-2-1, EN 60598-2-22, EN 62471, EN 62493, IEC/TR 62778, EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3, EN 50581, EN 13964 Annex D, EN 60598-2-24

VERY HIGH TEMPERATURE +70°C

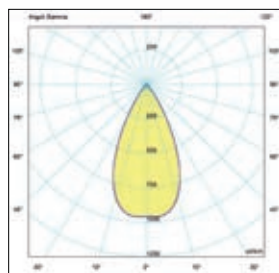


Suspension LED light fixtures, **VHT +70°C**
glass diffuser optics with **36° symmetrical narrow beam**
IP66

No. of LEDs	Light fixture size	Device power (W)	Nominal flux (lm) Tj= 25 °C	Output flux (lm) Tq= 25 °C	Version	Palazzoli code	Pack Qty
28	M	166	27.009	21.580	DALI	819528VHT	1
32	486x390	189	30.867	24.570		819532VHT	1
40	L	237	38.584	30.810		819540VHT	1
48	804x390	284	46.301	36.920		819548VHT	1

Equipment included: double chain bracket.
Power supply: 5Px1.5 mm² quick connector and 1.5 mm² H07RN-F cable, 0.2m in length.
Notes: the stated values may be subject to a +/- 7% tolerance.
Wireless control systems available on request.

HIGH TEMPERATURE +55°C

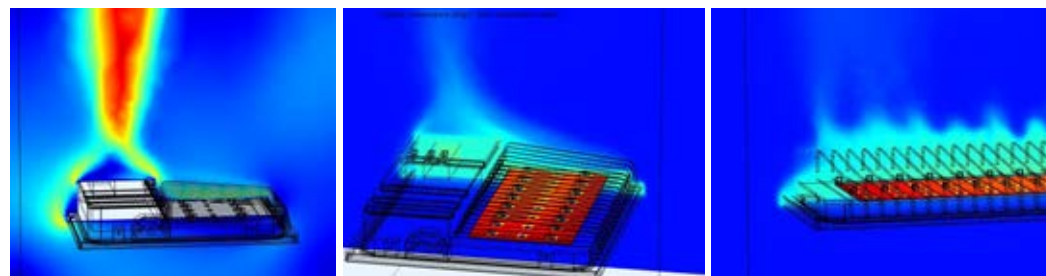


Suspension LED light fixtures, **HT +55°C**
glass diffuser optics with **55° symmetrical medium beam**
IP66

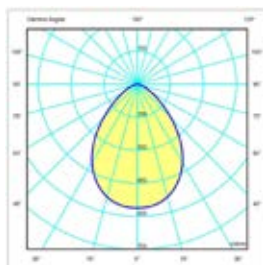
No. of LEDs	Light fixture size	Device power (W)	Nominal flux (lm) Tj= 25 °C	Output flux (lm) Tq= 25 °C	Version	Palazzoli code	Pack Qty
28	M	166	27.009	21.580	DALI	819428HT	1
32	486x390	189	30.867	24.570		819432HT	1
40	L	237	38.584	30.810		819440HT	1
48	804x390	284	46.301	36.579		819448HT	1

Equipment included: double chain bracket.
Power supply: 5Px1.5 mm² quick connector and 1.5 mm² H07RN-F cable, 0.2m in length.
Notes: the stated values may be subject to a +/- 7% tolerance.
Wireless control systems available on request.

The luminaire design is the result of careful studies of thermal simulations. The geometry of the heat sink guarantees the same temperature distribution in all installation positions and makes the LED sources and drivers highly reliable.



UGR<25



Suspension LED light fixtures,
glass diffuser optics with **81°** symmetrical extra wide beam
IP66

No. of LEDs	Light fixture size	Device power (W)	Nominal flux (lm) Tj= 25 °C	Output flux (lm) Tq= 25 °C	Version	Palazzoli code	Pack Qty
28	M	235	33.250	28.788	DALI	819328DA	1
32	486x390	270	38.000	32.940		819332DA	1
40	L	336	47.500	41.160		819340DA	1
48	804x390	400	57.000	48.800		819348DA	1

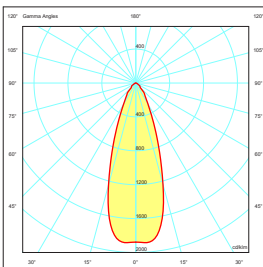
Equipment included: double chain bracket.

Power supply: 5Px1.5 mm² quick connector and 1.5 mm² H07RN-F cable, 0.2m in length.

Notes: the stated values may be subject to a +/- 7% tolerance.

Wireless control systems available on request.

UGR<22



Suspension LED light fixtures,
glass diffuser optics with **36°** symmetrical narrow beam
IP66

No. of LEDs	Light fixture size	Device power (W)	Nominal flux (lm) Tj= 25 °C	Output flux (lm) Tq= 25 °C	Version	Palazzoli code	Pack Qty
28	M	235	33.250	28.670	DALI	819528DA	1
32	486x390	270	38.000	32.805		819532DA	1
40	L	336	47.500	40.992		819540DA	1
48	804x390	400	57.000	48.600		819548DA	1

Equipment included: double chain bracket.

Power supply: 5Px1.5 mm² quick connector and 1.5 mm² H07RN-F cable, 0.2m in length.

Notes: the stated values may be subject to a +/- 7% tolerance.

Wireless control systems available on request.

Suspension accessories



Adjustable bracket
for double chain mounting

Manufacturing material	Light fixture size	Adjustable angle	Palazzoli code	Pack Qty
galvanised steel	M	0 - 90°	819994	1
	L	0 - 10°	819995	1



Kit with bracket
for ceiling mounting

Manufacturing material	Light fixture size	Palazzoli code	Pack Qty
galvanised steel	M	819996	1
	L	819997	1

Notes: not compatible with the VHT 70°C version.

Tunnel



Available sizes

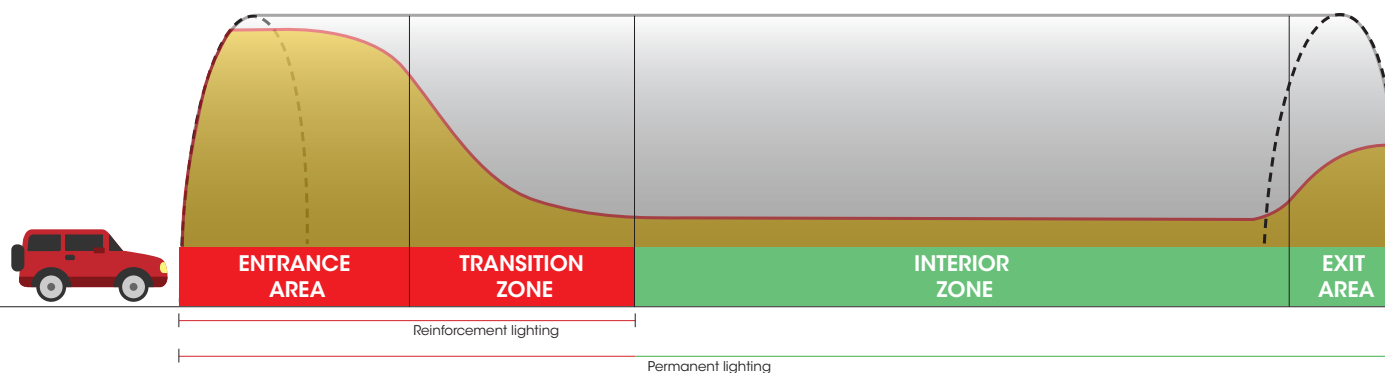
TUNNEL

REINFORCEMENT LIGHTING

is used from the entrance area to the transition zones in tunnels.

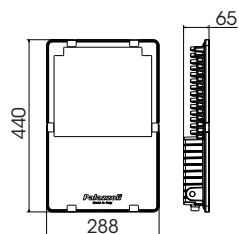
INTERIOR ZONE ILLUMINATION

also known as “permanent lighting”, this is uniformly distributed from the entrance to the exit area.



size S

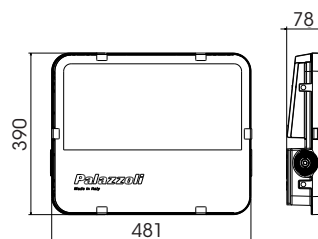
288x440x65



Flux ranges from 4.000 to 16.000 lm

size M

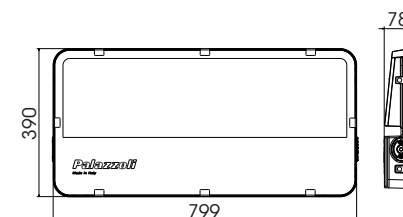
481x390x78



Flux ranges from 18.000 to 31.000 lm

size L

799x390x78



Flux ranges from 36.000 to 49.000 lm

The dimensions, including for mounting accessories, are available in the datasheet provided with in the lighting design project

X-TIGUA - summary

TUNNEL

Customised solutions

Specific photometrics optimised for luminous flux distribution on the road surface have been tested in the innovative Palazzoli technical lighting laboratory, equipped with goniophotometer.



Corrosion resistant

Tunnel floodlights are equipped with AISI 304 (316L on request) stainless steel brackets which are quick fixed to the product in a way that avoids galvanic corrosion.



High performance electronics

The electronics chosen for the internal components guarantee high technical lighting performance that lasts over time. By using primary brands, Palazzoli does guarantee product quality and performance.

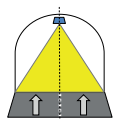
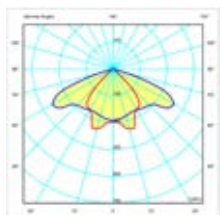


Adjustable upon request

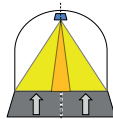
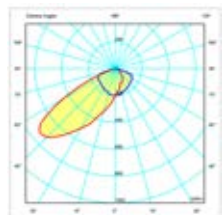
The luminous flux is adjustable to very small measures, allowing for the exact luminance required. All versions are available with dimming and/or control system upon request.



Precision optics



PS3 axial symmetric
transversal symmetric



RS1 axial counterflux 52°
transversal symmetric



X-TIGUA is Palazzoli's answer to LED road tunnel lighting.

A die-cast aluminium body with very low copper content, anti-corrosion treatment, and a 4mm thick diffuser in extra-clear tempered glass guarantees maximum durability for this luminaire.

It is available in 3 floodlight sizes (S, M, L), providing effective output up to 49000 lm.

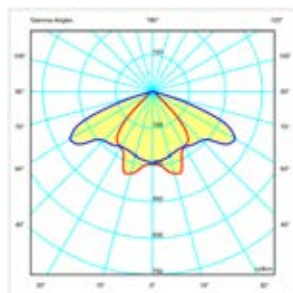
The rear heat sink allows for excellent heat management and increases the longevity of the luminous flux. The input surge protection secures the device against surges up to 10kV, extending product lifetime by protecting the LEDs from possible overloading.

High-power LEDs can maintain luminous flux over a period of more than 110000 hours. The optics are made using non-ageing, UV-resistant PMMA lenses with >90% efficiency and >95% transparency. The range includes 2x permanent optics and 2x reinforcement optics. Furthermore, Palazzoli can create customised optics according to specific project requirements. They are connected to the network via a 1.5m multicore FTG10(O)M1 cable and 2P 16A 230V standard industrial plug, compliant with standards CEI EN 60309-1 and CEI EN 60309-2. A wide range of AISI 304 stainless steel accessories is available for hanging the product using products designed to avoid galvanic corrosion. Installation on a cable trunking is possible without the help of further tools as it has a guided quick coupling system.

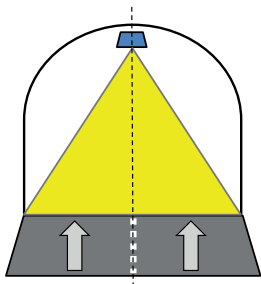
Tunnel sockets and boxes complete this lighting range. You can view these on the website: www.palazzoli.com

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

Body material	Low-copper aluminium alloy (EN 44300)
Surface treatment	Passivation with fluoro-zirconium treatment
Surface coating/colour	Non-toxic polyester, anti UV, kiln-polymerised coating, colour: RAL 7011
Diffuser material	Extra clear tempered glass, thickness: 4mm
Net weight	7.3 kg - 12kg - 19.3 kg
Protection rating	IP66 as per IEC/EN 60598-1
Impact resistance	IK08 as per IEC/EN 62262 + IEC/TR 62696
Optics features	Non-ageing, UV-resistant PMMA lenses with >90% efficiency and >95% transparency
Actual luminaire efficiency	Up to 130 lm/W
Colour temperature	4,000K (other temperatures on request)
Colour rendering index values	CRI ≥ 70 (good - according to EN 62717 criteria)
Colour consistency	MacAdam 5-step
Photobiological risk	RG0 - Exempt Group (EN 62471)
Residual flicker	< 1%
Lifetime	L90 B10 @110,000H Tq=40°C;
Insulation class	II
Supply voltage	220-240V 50/60Hz
Control/dimming system	Upon request for remote controlled versions
Surge protection	10 kV common mode, 8kV differential mode (EN 61000-4-5)
Power factor	≥ 0.98
Ambient functioning temp.	Min -30°C - Max +45°C;
Power supply	16A 2P IP67 IEC EN 60309-1/-2 plug with FTG10(O)M1 1.5 mm ² cable;
Warranty	2 years with optional extension to 10
Ambient storage temp.	Min -40°C; Max +70°C
Certification and approval marks	CE, ENEC
Directives	2014/30/EU (EMC), 2014/35/EU (LVD), 2011/65/EU (RoHS)
Product standards	EN 60598-1, EN 60598-2-3, EN 62471, EN 62493, IEC/TR 62778, EN 55015, EN61547, EN 61000-3-2, EN 61000-3-3, EN 50581, EN 62717, EN 62722-2-1, EN 61347-1, EN 61347-2-13, EN62384, EN 13032-4



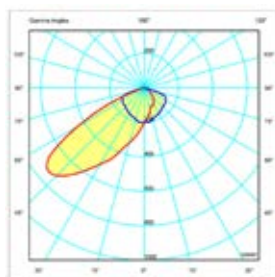
Tunnel floodlights
with **PS3 axially symmetrical**
and **transversally symmetrical optics**
IP66



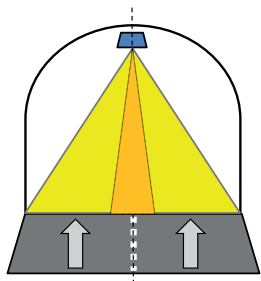
No. of LEDs	Floodlight size	Device power (W)	Nominal flux (lm) Tj= 25 °C	Output flux (lm) Tq= 25 °C	Version	Palazzoli code	Pack Qty
4	S 288x440	35	5.220	4.160	standard on-off	811404	1
6		51	7.830	6.240		811406	1
8		67	10.440	8.320		811408	1
9		75	11.745	9.360		811409	1
12		100	15.660	12.480		811412	1
14	M 481x390	116	18.270	14.560		811414	1
15		124	19.575	15.600		811415	1
18		152	23.490	19.468		812418	1
24		203	31.320	25.388		812424	1
30	L 799x390	253	39.150	31.850		812430	1
36		303	46.980	38.220		812436	1
42		349	54.810	43.863		812442	1
48		397	62.640	49.663		812448	1

Equipment included: power supply through 16A 2P IP67 IEC EN 60309-1/-2 plug with FTG10(O)M1 1.5 mm² cable.

Notes: the stated values may be subject to a +/- 7% tolerance.
Dimmable version on request.



Tunnel floodlights
with **RS1 axial counterflux**
and transversally symmetrical **52° optics**
IP66



No. of LEDs	Floodlight size	Device power (W)	Nominal flux (lm) Tj= 25 °C	Output flux (lm) Tq= 25 °C	Version	Palazzoli code	Pack Qty
4	S 288x440	35	5.220	4.160	standard on-off	811504	1
6		51	7.830	6.240		811506	1
8		67	10.440	8.320		811508	1
9		75	11.745	9.360		811509	1
12		100	15.660	12.480		811512	1
14	M 481x390	116	18.270	14.560		811514	1
15		124	19.575	15.600		811515	1
18		152	23.490	19.275		812518	1
24		203	31.320	25.137		812524	1
30	L 799x390	253	39.150	31.535		812530	1
36		303	46.980	37.841		812536	1
42		349	54.810	43.429		812542	1
48		397	62.640	49.171		812548	1

Equipment included: power supply through 16A 2P IP67 IEC EN 60309-1/-2 plug with FTG10(O)M1 1.5 mm² cable.

Notes: the stated values may be subject to a +/- 7% tolerance.
Dimmable version on request.

Tunnel floodlight accessories

TUNNEL



Pair of quick fitting brackets
in AISI 304 stainless steel
for axial adjustment

Manufactur- ing material	For floodlight size	Axial adjustment	Trunking size	Palazzoli code	Pack Qty
AISI 304 stainless steel	S	6°	100x75	811931	1
			200x75	811932	1
			300x75	811933	1
			100x100	811934	1
			200x100	811935	1
			300x100	811936	1
	S	8°	100x75	811937	1
			200x75	811938	1
			300x75	811939	1
			100x100	811940	1
			200x100	811941	1
			300x100	811942	1
	S	10°	100x75	811943	1
			200x75	811944	1
			300x75	811945	1
			100x100	811946	1
			200x100	811947	1
			300x100	811948	1

Manufactur- ing material	For floodlight size	Axial adjustment	Trunking size	Palazzoli code	Pack Qty
AISI 304 stainless steel	M	6°	100x75	812931M	1
			200x75	812932M	1
			300x75	812933M	1
			100x100	812934M	1
			200x100	812935M	1
			300x100	812936M	1
	M	8°	100x75	812937M	1
			200x75	812938M	1
			300x75	812939M	1
			100x100	812940M	1
			200x100	812941M	1
			300x100	812942M	1
	M	10°	100x75	812943M	1
			200x75	812944M	1
			300x75	812945M	1
			100x100	812946M	1
			200x100	812947M	1
			300x100	812948M	1

Manufactur- ing material	For floodlight size	Axial adjustment	Trunking size	Palazzoli code	Pack Qty
AISI 304 stainless steel	L	6°	100x75	812931L	1
			200x75	812932L	1
			300x75	812933L	1
			100x100	812934L	1
			200x100	812935L	1
			300x100	812936L	1
	L	8°	100x75	812937L	1
			200x75	812938L	1
			300x75	812939L	1
			100x100	812940L	1
			200x100	812941L	1
			300x100	812942L	1
	L	10°	100x75	812943L	1
			200x75	812944L	1
			300x75	812945L	1
			100x100	812946L	1
			200x100	812947L	1
			300x100	812948L	1

Tunnel floodlight accessories

TUNNEL



Pair of quick fitting brackets
in AISI 304 stainless steel

Manufacturing material	For floodlight size	Trunking size	Palazzoli code	Pack Qty
AISI 304 stainless steel	S M L	100x75	811900	1
		200x75	811901	1
		300x75	811902	1
		100x100	811903	1
		200x100	811904	1
		300x100	811905	1



Pair of quick fitting brackets
in AISI 304 stainless steel
for transversal adjustment

Manufacturing material	For floodlight size	Trunking size	Palazzoli code	Pack Qty
AISI 304 stainless steel	S M L	100x75	811925	1
		200x75	811926	1
		300x75	811927	1
		100x100	811928	1
		200x100	811929	1
		300x100	811930	1



Pair of brackets
in AISI 304 stainless steel
for direct screw mounting

Manufacturing material	For floodlight size	Palazzoli code	Pack Qty
AISI 304 stainless steel	S,M,L	811906	1



Pair of adjustable brackets
in AISI 304 stainless steel
for direct screw mounting

Manufacturing material	For floodlight size	Palazzoli code	Pack Qty
AISI 304 stainless steel	S,M,L	811907	1

Designed and manufactured in Italy



The optical groups are assembled and wired in a dedicated area within the Palazzoli factories.

Lenses are placed on the boards by an automated process and are designed for achieving an optimal distribution of the luminous flux in any applications.

Palazzoli lighting fixtures are manufactured by using several materials. The bodies are made of aluminium alloy treated against corrosion through a fully automated passivation and painting process taking place inside the factory. Products made of painted galvanized steel or AISI304 stainless steel are for the industrial sector and the ATEX one while AISI316L stainless steel is used for naval applications.

The diffusers are made of tempered glass or polycarbonate, with HACCP certification for the food sector. Thanks to an excellent heat dissipation, the LED systems in use keep the emitted luminous flux unchanged and ensuring optimal operating conditions.





Painting

Palazzoli is a company specializing in the manufacturing of lighting fixtures for harsh environments, in which the operating conditions are severe and extreme. For this reason, since a long time, the company has invested in surface finishing processes in order to guarantee the best protection and excellent resistance to corrosion. The painting of products is carried out in a dedicated area of the production facilities and is structured by different phases wherein each finishing process is checked and verified step by step. Through passivation processes with fluoro-zirconium, which precede the powder coating, the company can provide products with high quality standards, resistant to corrosion and abrasions.



Certified Quality

Over the years, Palazzoli has distinguished itself for the highest quality objectives and striving for offering to the clients the best guarantees in terms of design criteria, production processes, safety, and product durability.

All lighting fixtures are made in Italy and certified, according to application, by **ENEC, CESI, RINA, ATEX, IECex, NEMKO** and **QL** (LEDs certified for photobiological risk).



Palazzoli contributes to the Research
on Breast Cancer Immunotherapy

Customer focused operations

Smart engineering

Top manufacture

Service excellence



Palazzoli S.p.a

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palazzoli.com



Palazzoli
LUCE D'AUTORE