

# X-TIGUA

by Palazzoli

*Lighting to save*



excellence  
**FROM ITALY**

# 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 3 sizes, ranging from 27000 lm to 65000 lm.

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

## Suspension

Page 14



The suspension light fixtures are in 2 sizes, ranging from 21000 lm to 49000 lm.

Perfect for **illuminating great heights**.

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

## Tunnel

Page 22

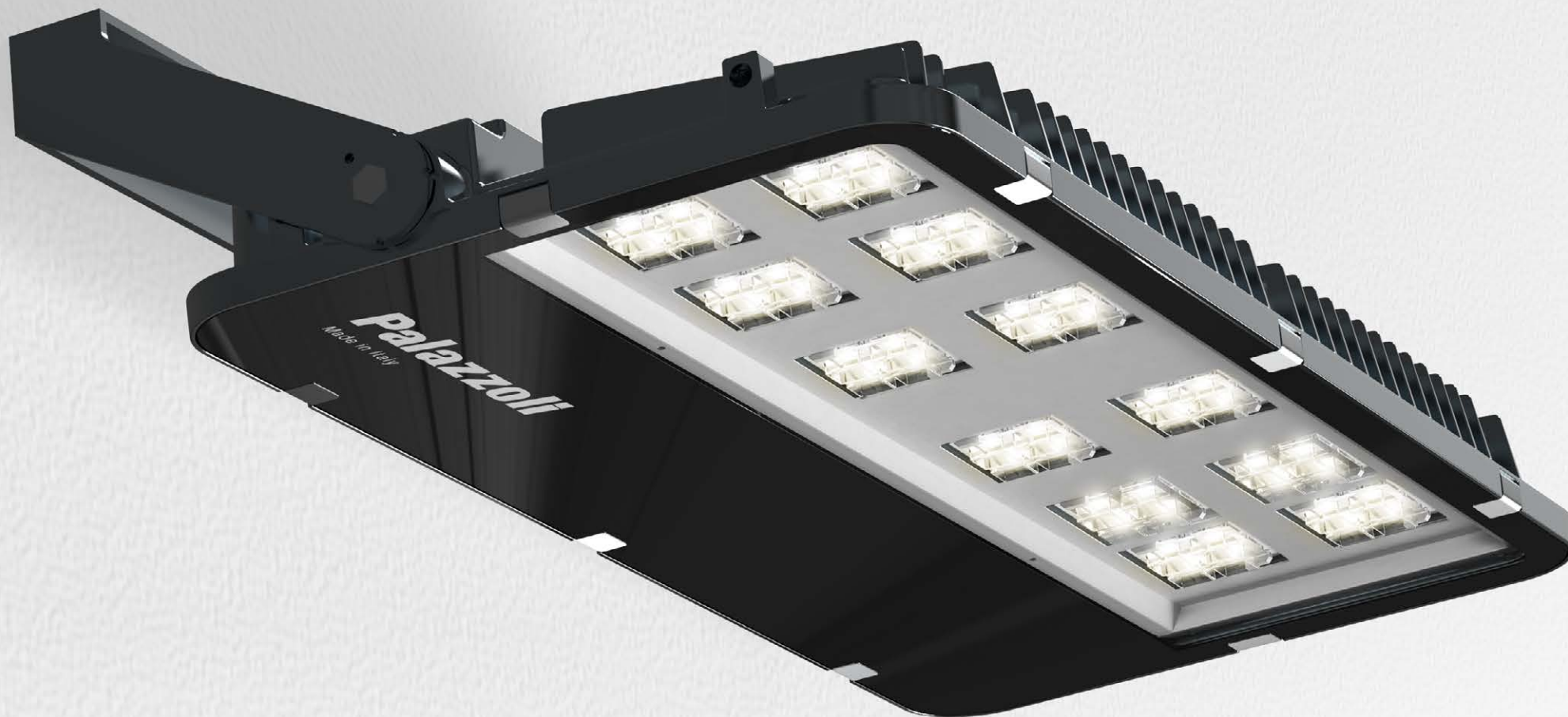


The tunnel range consists of:

X-TIGUA floodlights, from 19000 lm to 63000 lm, ideal for **reinforcement lighting**.

TIGUA floodlights, from 4000 lm to 16000 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.



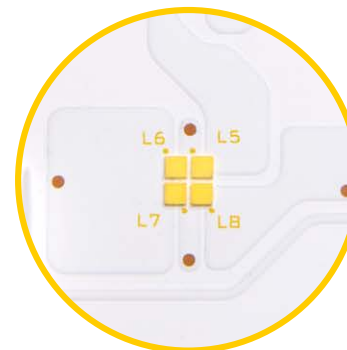
## Visual comfort

This range of optics consists of 3 symmetrical beams, 3 asymmetrical beams and 1 suited to roadway; 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  $-110^\circ$  to  $+110^\circ$ . The driver, built into the luminaire, allows for fast and secure cabling.

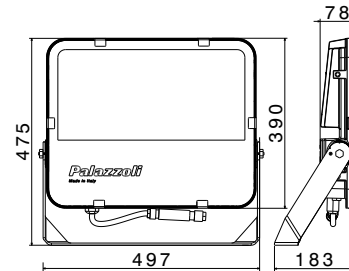


## Reliable

In latest-generation LEDs, the luminous flux remains unaltered over time. X-TIGUA lasts for over 100,000 hours in ambient temperatures of  $+55^\circ\text{C}$ .

## Size M

497x475x78

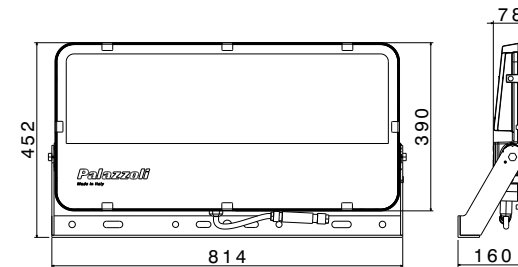
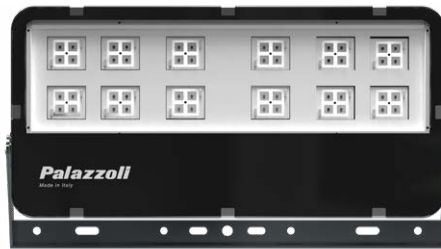


Flux ranges from 27000 to 33000 lm, comparable to a 400W JM (metal-halide) lamp.  
Installation height: 9 - 20 m.

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

## Size L

814x452x78

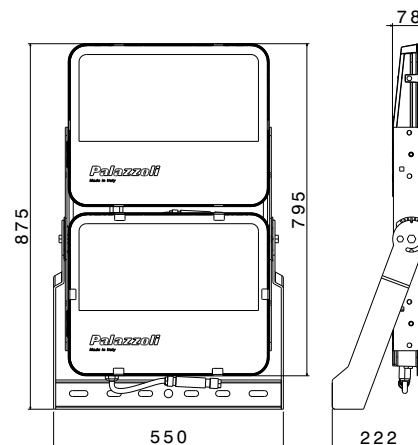


Flux ranges from 38000 to 49000 lm, comparable to a 600W SAP (sodium high pressure) lamp.  
Installation height: 15 - 25 m.

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

## Size XL

550x875x78



Flux ranges from 53000 to 65000 lm, comparable to a 1000W JM (metal-halide) lamp.  
Installation height: 20 - 35 m.

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



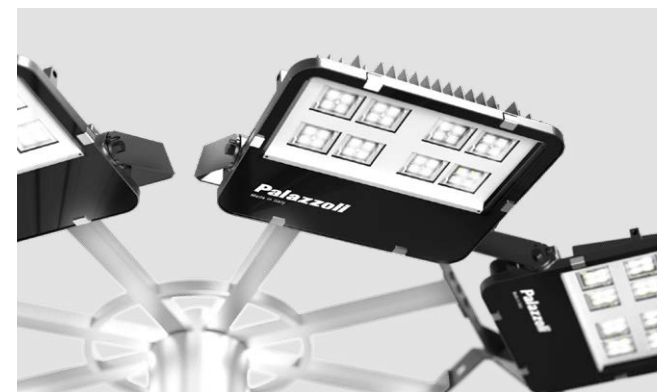
## Wall-mounted

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



## Pole-mounted

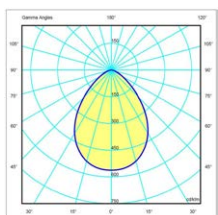
With accessories (floodlight-bearing cross beams, codes 818990 and 818991), the luminaires can be quickly installed on poles (60 - 76mm in diameter). There are various fixing points for installing a single luminaire or multiple luminaires.



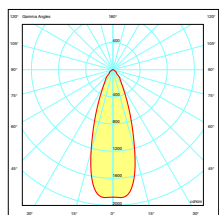
## Light tower

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.

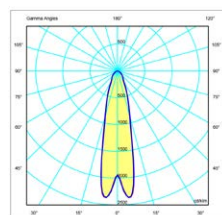
# Precision optics



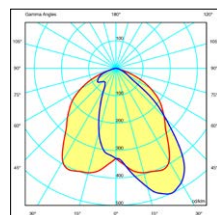
Symmetrical  $81^{\circ}$  extra wide beam



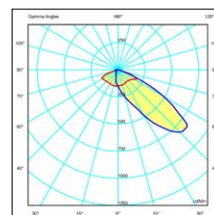
Symmetrical  $36^{\circ}$  narrow beam



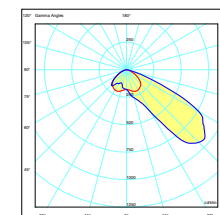
Symmetrical  $18^{\circ}$  narrow beam



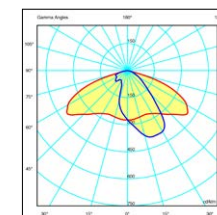
Asymmetrical  $23^{\circ}$  extra wide beam



Asymmetrical  $43^{\circ}$  narrow beam



Asymmetrical  $55^{\circ}$  narrow beam



Roadway  $65^{\circ}$  wide 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 3 floodlight sizes (M, L and XL), providing actual output up to 65000 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 100,000 hours, even in ambient temperatures up to 55°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 range consists of 3 symmetrical beams, 3 asymmetrical beams and 1 suited to roadway, 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.

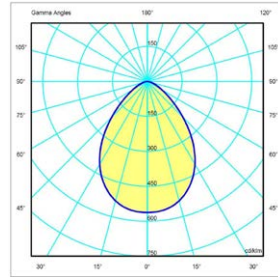
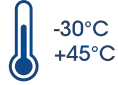
A front grid is also available to protect the unit.

The photometric curves (LDT files) are available on [www.palazzoli.com](http://www.palazzoli.com)

Body material	<b>Low-copper aluminium alloy (EN 44300)</b>
Surface treatment	<b>Passivation with fluoro-zirconium treatment</b>
Surface coating/colour	<b>Non-toxic polyester, anti UV, kiln-polymerised coating, colour: RAL 7011</b>
Diffuser material	<b>Extra clear tempered glass, thickness: 4mm</b>
Net weight	<b>9.5 kg - 13.5 kg - 23.2 kg</b>
Protection rating	<b>IP66 as per IEC/EN 60598-1</b>
Impact resistance	<b>IK08 as per IEC/EN 62262 + IEC/TR 62696</b>
Mounting system	<b>U bracket with adjustment range of -110° to 110°</b>
Optics features	<b>Non-ageing, UV-resistant PMMA lenses with &gt;90% efficiency and &gt;95% transparency</b>
Actual luminaire efficiency	<b>Up to 130 lm/W</b>
Colour temperature	<b>4,000K (other temperatures on request)</b>
Colour rendering index values	<b>CRI ≥ 80 (good - according to EN 62717 criteria)</b>
Colour consistency	<b>MacAdam 4-step</b>
Photobiological risk	<b>RG0 - Exempt Group (EN 62471)</b>
Residual flicker	<b>&lt; 1%</b>
Lifetime	<b>L80 B20 @100,000H Tq=40°C; Tq= 55°C (HT version)</b>
Insulation class	<b>II</b>
Supply voltage	<b>220-240V 50/60Hz</b>
Surge protection	<b>8 kV common mode, 6kV differential mode (EN 61000-4-5)</b>
Power factor	<b>≥ 0.95</b>
Ambient functioning temp.	<b>Min -30°C to Max +45°C; Max +55°C (HT version)</b>
Power supply	<b>Quick connector</b>
Max. conductor cross-section	<b>1.5 mm<sup>2</sup></b>
Entry cable diameter	<b>Min 7 mm; Max 13 mm</b>
Wind load surface	<b>Side M 0.04 m<sup>2</sup> - Front M 0.18 m<sup>2</sup>; Side L 0.04 m<sup>2</sup>; Front L 0.30 m<sup>2</sup>; Side XL 0.15 m<sup>2</sup> - Front XL 0.4 m<sup>2</sup></b>
Warranty	<b>2 years with optional extension to 5</b>
Ambient storage temp.	<b>Min -40°C; Max +70°C</b>
Certification and approval marks	<b>CE, ENEC, DIN 18032-3/EN 13964</b>
Directives	<b>2014/30/EU (EMC), 2014/35/EU (LVD), 2011/65/EU (RoHS)</b>
Product standards	<b>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</b>

# Floodlight

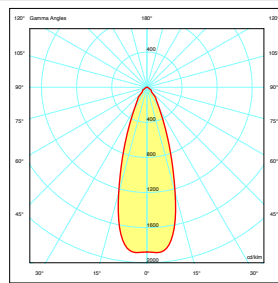
100,000h



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
28	M	235	33250	28788	standard on-off	<b>818028</b>	1
32	497x475	270	38000	32940		<b>818032</b>	1
40	L	336	47500	41160		<b>818040</b>	1
48	814x452	400	57000	48800		<b>818048</b>	1
56	XL	470	66500	57575		<b>818056</b>	1
64	550x875	535	76000	65270		<b>818064</b>	1

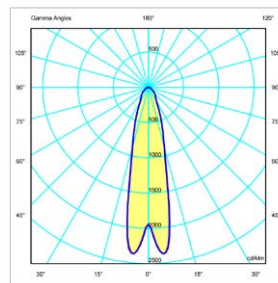
Equipment included: wall-mounting bracket.  
 Power supply: 2Px1.5 mm<sup>2</sup> quick connector and 1.5 mm<sup>2</sup> H07RN-F cable, 0.2m in length.  
 Notes: the stated values may be subject to a +/- 7% tolerance.



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
28	M	235	33250	28670	standard on-off	<b>818128</b>	1
32	497x475	270	38000	32805		<b>818132</b>	1
40	L	336	47500	40992		<b>818140</b>	1
48	814x452	400	57000	48600		<b>818148</b>	1
56	XL	470	66500	57340		<b>818156</b>	1
64	550x875	535	76000	65003		<b>818164</b>	1

Equipment included: wall-mounting bracket.  
 Power supply: 2Px1.5 mm<sup>2</sup> quick connector and 1.5 mm<sup>2</sup> H07RN-F cable, 0.2m in length.  
 Notes: the stated values may be subject to a +/- 7% tolerance.



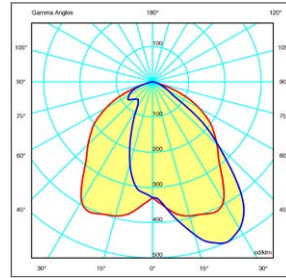
Professional LED floodlights with **18° symmetrical narrow beam optics** IP66

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
28	M	235	33250	26555	standard on-off	<b>818628</b>	1
32	497x475	270	38000	30510		<b>818632</b>	1
40	L	336	47500	37968		<b>818640</b>	1
48	814x452	400	57000	45200		<b>818648</b>	1
56	XL	470	66500	53110		<b>818656</b>	1
64	550x875	535	76000	60455		<b>818664</b>	1

Equipment included: wall-mounting bracket.  
 Power supply: 2Px1.5 mm<sup>2</sup> quick connector and 1.5 mm<sup>2</sup> H07RN-F cable, 0.2m in length.  
 Notes: the stated values may be subject to a +/- 7% tolerance.

# Floodlight

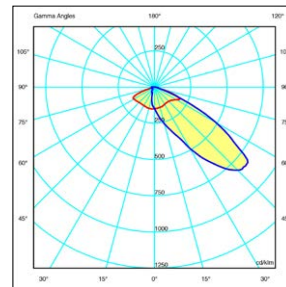
100,000h



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	33250	28788	standard on-off	<b>818228</b>	1
32	497x475	270	38000	32940		<b>818232</b>	1
40	L	336	47500	41160		<b>818240</b>	1
48	814x452	400	57000	48800		<b>818248</b>	1
56	XL	470	66500	57575		<b>818256</b>	1
64	550x875	535	76000	65270		<b>818264</b>	1

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

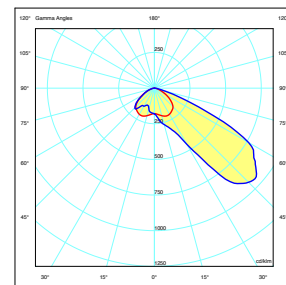
Equipment included: wall-mounting bracket.  
Power supply: 2Px1.5 mm<sup>2</sup> quick connector and 1.5 mm<sup>2</sup> H07RN-F cable, 0.2m in length.  
Notes: the stated values may be subject to a +/- 7% tolerance.



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	33250	28788	standard on-off	<b>818328</b>	1
32	497x475	270	38000	32940		<b>818332</b>	1
40	L	336	47500	41160		<b>818340</b>	1
48	814x452	400	57000	48800		<b>818348</b>	1
56	XL	470	66500	57575		<b>818356</b>	1
64	550x875	535	76000	65270		<b>818364</b>	1

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

Equipment included: wall-mounting bracket.  
Power supply: 2Px1.5 mm<sup>2</sup> quick connector and 1.5 mm<sup>2</sup> H07RN-F cable, 0.2m in length.  
Notes: the stated values may be subject to a +/- 7% tolerance.



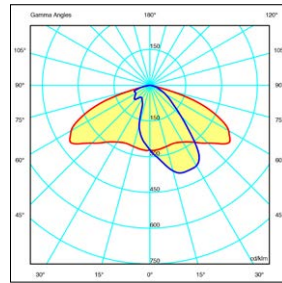
No. of LEDs	Light fixture size	Device power (W)	Nominal flux (lm) Tj= 25 °C	Output flux (lm) Tq= 25 °C	Version	Palazzoli code	Pack Qty
28	M	235	33250	28905	standard on-off	<b>818528</b>	1
32	497x475	270	38000	32670		<b>818532</b>	1
40	L	336	47500	40656		<b>818540</b>	1
48	814x452	400	57000	49720		<b>818548</b>	1
56	XL	470	66500	56870		<b>818556</b>	1
64	550x875	535	76000	64735		<b>818564</b>	1

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

Equipment included: wall-mounting bracket.  
Power supply: 2Px1.5 mm<sup>2</sup> quick connector and 1.5 mm<sup>2</sup> H07RN-F cable, 0.2m in length.  
Notes: the stated values may be subject to a +/- 7% tolerance.

# Floodlight

100,000h



Professional LED floodlights  
with **65° roadway 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
28	M	235	33250	28670	standard on-off	<b>818428</b>	1
32	497x475	270	38000	32805		<b>818432</b>	1
40	L	336	47500	40992		<b>818440</b>	1
48	814x452	400	57000	48600		<b>818448</b>	1
56	XL	470	66500	57340		<b>818456</b>	1
64	550x875	535	76000	65003		<b>818464</b>	1

Equipment included: wall-mounting bracket.  
Power supply: 2Px1.5 mm<sup>2</sup> quick connector and 1.5 mm<sup>2</sup> H07RN-F cable, 0.2m in length.  
Notes: the stated values may be subject to a +/- 7% tolerance.

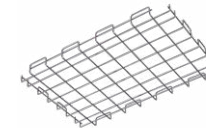
## Floodlight accessories



Cross beam for  
pole-top mounting  
1 or 2 X-TIGUA floodlights



Cross beam for  
pole-top mounting  
2 or 4 X-TIGUA floodlights



Protection grid  
for X-TIGUA floodlights

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

Manufacturing material	Light fixture size	Palazzoli code	Pack Qty
galvanised steel	M,L,XL	<b>818991</b>	1

Manufacturing material	Floodlight size	Palazzoli code	Pack Qty
galvanised steel	M, XL*	<b>818992</b>	1
	L	<b>818993</b>	1

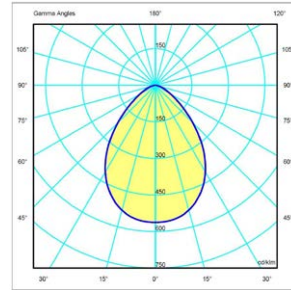
Notes: cross beam suitable for mounting up to 2x floodlights size M, L or XL.  
The cross beam can be installed  $\varnothing$  60 -  $\varnothing$  76 mm poles.

Notes: cross beam suitable for mounting 2x floodlights size L or 4x floodlights size M or XL.  
The cross beam can be installed on  $\varnothing$  60 to  $\varnothing$  76 mm poles.

Notes: \*for size XL, use 2x grids size M.

# Floodlight

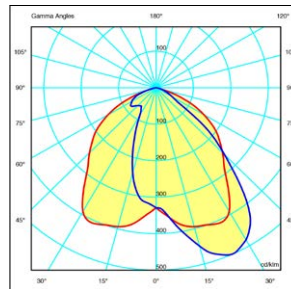
100,000h



Professional LED floodlights **HT +55°** 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
28	M	166	27009	21613	standard on-off	<b>818028HT</b>	1
32	497x475	189	30867	24570		<b>818032HT</b>	1
40	L	237	38584	30857		<b>818040HT</b>	1
48	814x452	284	46301	36920		<b>818048HT</b>	1
56	XL	332	54018	43226		<b>818056HT</b>	1
64	550x875	378	61734	49140		<b>818064HT</b>	1

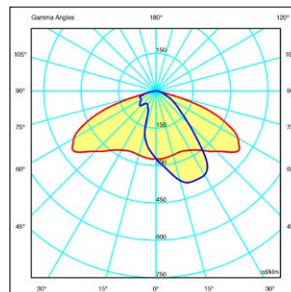
Equipment included: wall-mounting bracket.  
Power supply: 2Px1.5 mm<sup>2</sup> quick connector and 1.5 mm<sup>2</sup> H07RN-F cable, 0.2m in length.  
Notes: the stated values may be subject to a +/- 7% tolerance.



Professional LED floodlights **HT +55°** with **23° 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
28	M	166	27009	21613	standard on-off	<b>818228HT</b>	1
32	497x475	189	30867	24570		<b>818232HT</b>	1
40	L	237	38584	30857		<b>818240HT</b>	1
48	814x452	284	46301	36920		<b>818248HT</b>	1
56	XL	332	54018	43226		<b>818256HT</b>	1
64	550x875	378	61734	49140		<b>818264HT</b>	1

Equipment included: wall-mounting bracket.  
Power supply: 2Px1.5 mm<sup>2</sup> quick connector and 1.5 mm<sup>2</sup> H07RN-F cable, 0.2m in length.  
Notes: the stated values may be subject to a +/- 7% tolerance.



Professional LED floodlights **HT +55°** with **65° roadway 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
28	M	166	27009	19920	standard on-off	<b>818428HT</b>	1
32	497x475	189	30867	22680		<b>818432HT</b>	1
40	L	237	38584	28440		<b>818440HT</b>	1
48	814x452	284	46301	34080		<b>818448HT</b>	1
56	XL	332	54018	39840		<b>818456HT</b>	1
64	550x875	378	61734	45360		<b>818464HT</b>	1

Equipment included: wall-mounting bracket.  
Power supply: 2Px1.5 mm<sup>2</sup> quick connector and 1.5 mm<sup>2</sup> H07RN-F cable, 0.2m in length.  
Notes: the stated values may be subject to a +/- 7% tolerance.

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

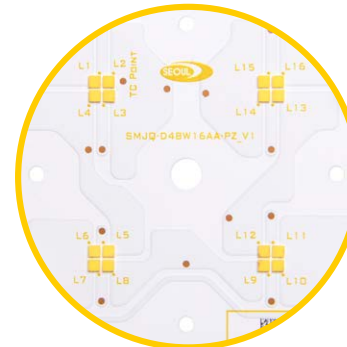
X-TIGUA produces lighting design solutions for installation at heights of over 15 metres. Inside a hangar, Palazzoli suspension luminaires can provide uniform lighting for the area below, guaranteeing over 120,000 hours of performance and so significantly reducing maintenance costs from the outset.





## 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.

## Easy to adjust

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

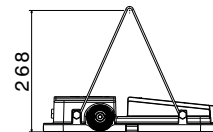
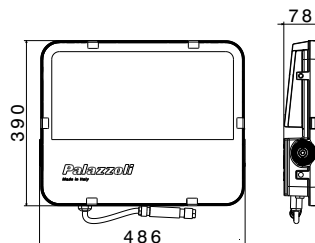




# Sizes and temperature compatibility options available

SUSPENSION

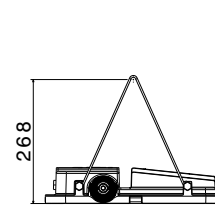
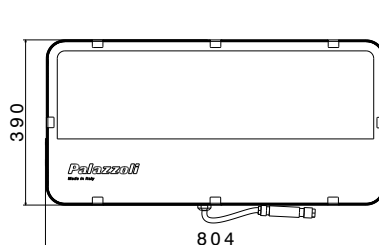
Size **M**  
486x390x78



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

Installation height: 9 to 20m.

Size **L**  
804x390x78



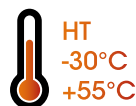
Flux ranges from 30000 to 49000 lm,  
comparable to a 600W SAP  
(sodium high pressure) lamp.

Installation height: 15 - 25 m.

**VHT**  
(Very High Temperature)



**HT**  
(High Temperature)



**Standard**





## Suspension mounting

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



## Adjustable double chain

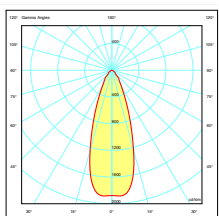
Product codes 819994 and 819995 give the luminaire a 0° to 90° rotation range, allowing the luminous flux to be pointed in the optimum direction.



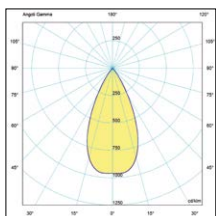
## Ceiling mounting

The ceiling mounting kit, codes 81996 and 819997, allow the luminaire to be easily installed on ceilings.

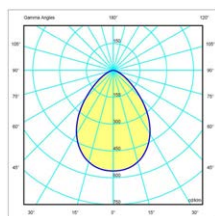
# Precision optics



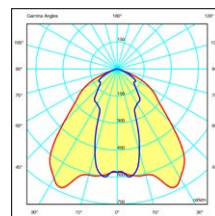
Symmetrical 36° narrow beam



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.

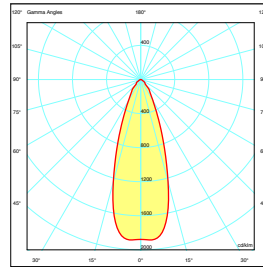
A die-cast aluminium body with very low copper content, anti-corrosion treatment, and a 4mm thick diffuser in extra-clear tempered glass guarantees the durability of this luminaire. It is available in 2 sizes (M and L), providing actual output of up to 49000 lm. The rear heat sink allows for excellent 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.

The photometric curves (LDT files) are available on [www.palazzoli.com](http://www.palazzoli.com)

Body material	<b>Low-copper aluminium alloy (EN 44300)</b>
Surface treatment	<b>Passivation with fluoro-zirconium treatment</b>
Surface coating/colour	<b>Non-toxic polyester, anti UV, kiln-polymerised coating, colour: RAL 7011</b>
Diffuser material	<b>Extra clear tempered glass, thickness: 4mm</b>
Net weight	<b>7.5 kg - 12.1 kg</b>
Protection rating	<b>IP66 as per IEC/EN 60598-1</b>
Impact resistance	<b>IK08 as per IEC/EN 62262 + IEC/TR 62696</b>
Mounting system	<b>Double chain brackets</b>
Optics features	<b>Non-ageing, UV-resistant PMMA lenses with &gt;90% efficiency and &gt;95% transparency</b>
Actual luminaire efficiency	<b>Up to 130 lm/W</b>
Colour temperature	<b>4,000K (other temperatures on request)</b>
Colour rendering index values	<b>CRI ≥ 80 (good - according to EN 62717 criteria)</b>
Colour consistency	<b>MacAdam 4-step</b>
Photobiological risk	<b>RG0 - Exempt Group (EN 62471)</b>
Glare index	<b>UGR &lt;22; UGR &lt;25</b>
Residual flicker	<b>&lt; 1%</b>
Lifetime	<b>L80 B20 @120,000H Tq=40°C; Tq= 55°C (HT version); L80 B20 @100,000H Tq=70°C; Tq= 55°C (HT version);</b>
Insulation class	<b>I</b>
Supply voltage	<b>220-240V 50/60Hz</b>
Surge protection	<b>8 kV common mode, 6kV differential mode (EN 61000-4-5)</b>
Power factor	<b>≥ 0.95</b>
Ambient functioning temp.	<b>Min -30°C to Max +45°C; Max +55°C (HT version); Max +70°C (VHT version);</b>
Power supply	<b>Quick connector</b>
Max. conductor cross-section	<b>1.5 mm<sup>2</sup></b>
Entry cable diameter	<b>Min 7 mm; Max 13 mm</b>
Warranty	<b>2 years with optional extension to 5</b>
Ambient storage temp.	<b>Min -40°C; Max +70°C</b>
Certification and approval marks	<b>CE, ENEC, DIN 18032-3/EN 13964</b>
Directives	<b>2014/30/UE (EMC), 2014/35/UE (LVD), 2011/65/UE</b>
Product standards	<b>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</b>



## VERY HIGH TEMPERATURE +70°C

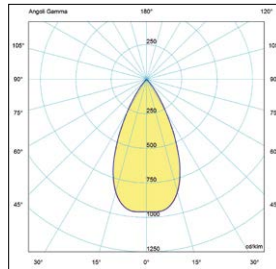


No. of LEDs	Light fixture size	Device power (W)	Nominal flux (lm) Tj= 25 °C	Output flux (lm) Tq= 25 °C	Version	Palazzoli code	Pack Qty
28	M	166	27009	21580	DALI	819528VHT	1
32	486x390	189	30867	24570		819532VHT	1
40	L	237	38584	30810		819540VHT	1
48	804x390	284	46301	36920		819548VHT	1

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

Equipment included: double chain bracket.  
Power supply: 5Px1.5 mm<sup>2</sup> quick connector and 1.5 mm<sup>2</sup> 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

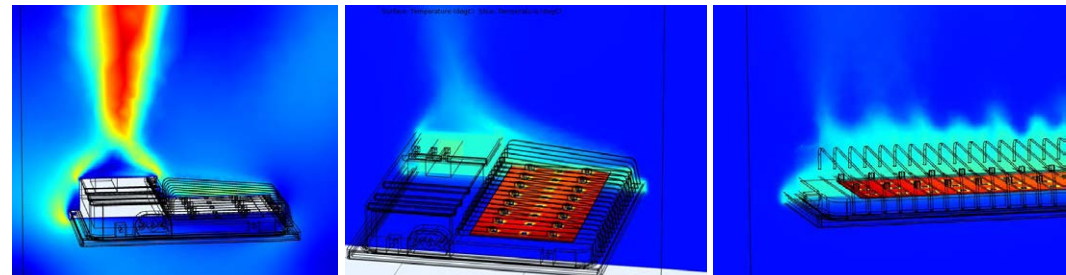


No. of LEDs	Light fixture size	Device power (W)	Nominal flux (lm) Tj= 25 °C	Output flux (lm) Tq= 25 °C	Version	Palazzoli code	Pack Qty
28	M	166	27009	21580	DALI	819428HT	1
32	486x390	189	30867	24570		819432HT	1
40	L	237	38584	30810		819440HT	1
48	804x390	284	46301	36579		819448HT	1

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

Equipment included: double chain bracket.  
Power supply: 5Px1.5 mm<sup>2</sup> quick connector and 1.5 mm<sup>2</sup> 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.

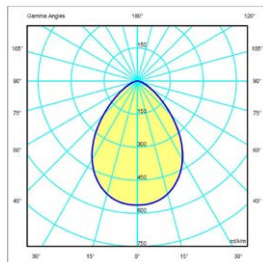


# Suspension

120,000h



## UGR<25

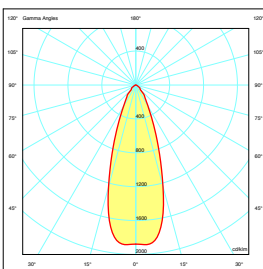


Suspension LED light fixtures,  
**glass** diffuser optics  
 with **81° symmetrical extra wide beam**  
**IP66**

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	33250	28788	DALI	<b>819328DA</b>	1
32	486x390	270	38000	32940		<b>819332DA</b>	1
40	L	336	47500	41160		<b>819340DA</b>	1
48	804x390	400	57000	48800		<b>819348DA</b>	1

Equipment included: double chain bracket.  
 Power supply: 5Px1.5 mm<sup>2</sup> quick connector and 1.5 mm<sup>2</sup> 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	33250	28670	DALI	<b>819528DA</b>	1
32	486x390	270	38000	32805		<b>819532DA</b>	1
40	L	336	47500	40992		<b>819540DA</b>	1
48	804x390	400	57000	48600		<b>819548DA</b>	1

Equipment included: double chain bracket.  
 Power supply: 5Px1.5 mm<sup>2</sup> quick connector and 1.5 mm<sup>2</sup> 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°	<b>819994</b>	1
	L	0 - 10°	<b>819995</b>	1



Kit with bracket  
 for ceiling mounting

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

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

Tunnel

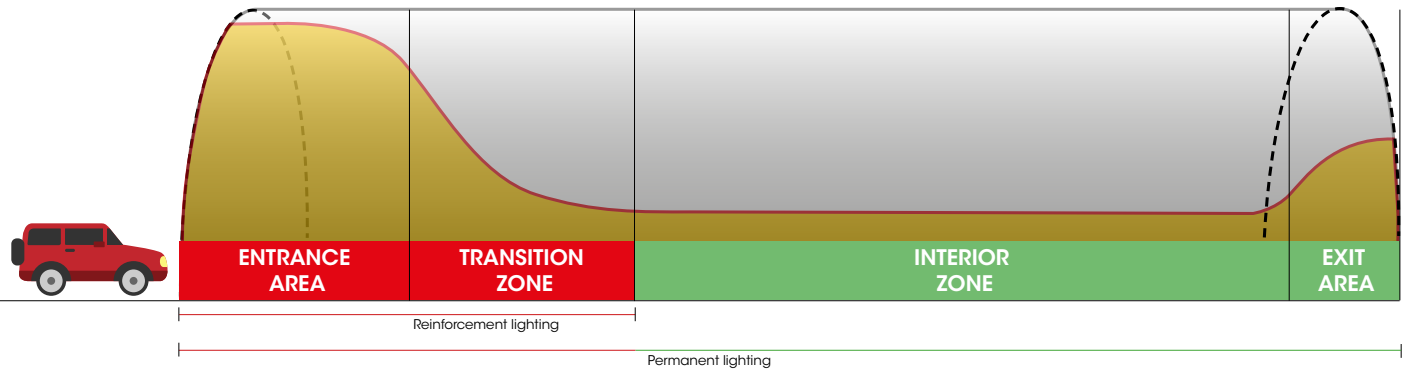


## REINFORCEMENT LIGHTING

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

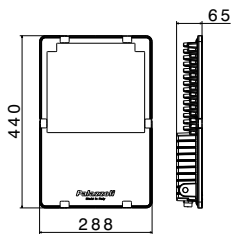
## INTERIOR ZONE ILLUMINATION

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



## Size S

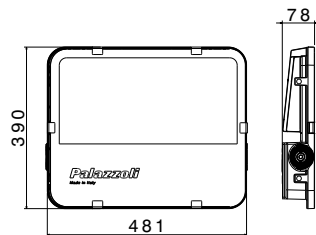
288x440x65



Flux ranges from 4000 to 16000 lm

## Size M

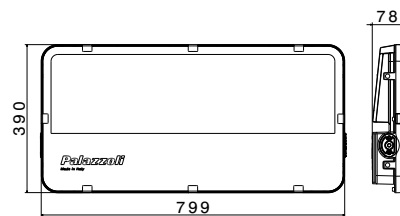
481x390x78



Flux ranges from 18000 to 31000 lm

## Size L

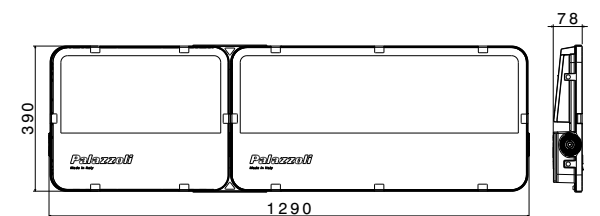
799x390x78



Flux ranges from 36000 to 49000 lm

## Size XXL

1.290x390x78



Flux 63000 lm

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

## 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.



## 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.



## 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.

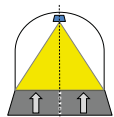
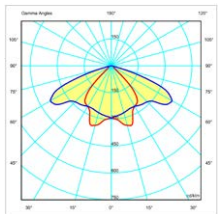


## Adjustable upon request

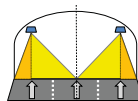
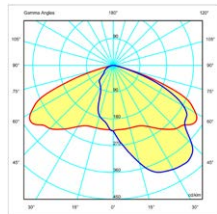
The luminous flux is adjustable to very small measures, allowing for the exact luminance required. All versions are available with dimming and/or control system upon request.



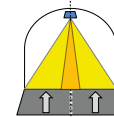
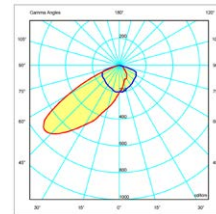
# Precision optics



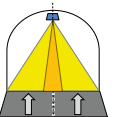
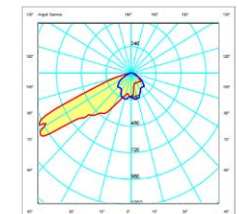
PS3 axial symmetric  
transversal symmetric



PA3 axial symmetric 25°  
transversal symmetric



RS1 axial counterflux 52°  
transversal symmetric



RS3 axial counterflux 62°  
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 4 floodlight sizes (S, M, L and XXL), providing effective output up to 63000 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.

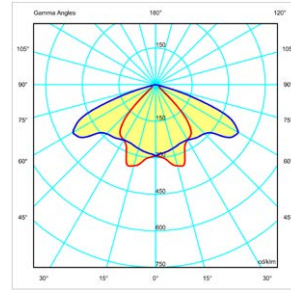
High-power LEDs can maintain luminous flux over a period of more than 110000 hours. The optics are made using non-ageing, UV-resistant PMMA lenses with >90% efficiency and >95% transparency. The range includes 2x permanent optics and 2x reinforcement optics. Furthermore, Palazzoli can create customised 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](http://www.palazzoli.com)

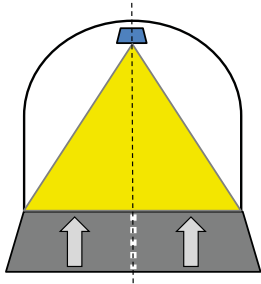
The photometric curves (LDT files) are available on [www.palazzoli.com](http://www.palazzoli.com)

Body material	<b>Low-copper aluminium alloy (EN 44300)</b>
Surface treatment	<b>Passivation with fluoro-zirconium treatment</b>
Surface coating/colour	<b>Non-toxic polyester, anti UV, kiln-polymerised coating, colour: RAL 7011</b>
Diffuser material	<b>Extra clear tempered glass, thickness: 4mm</b>
Net weight	<b>7.3 kg - 12kg - 19.3 kg</b>
Protection rating	<b>IP66 as per IEC/EN 60598-1</b>
Impact resistance	<b>IK08 as per IEC/EN 62262 + IEC/TR 62696</b>
Optics features	<b>Non-ageing, UV-resistant PMMA lenses with &gt;90% efficiency and &gt;95% transparency</b>
Actual luminaire efficiency	<b>Up to 130 lm/W</b>
Colour temperature	<b>4,000K (other temperatures on request)</b>
Colour rendering index values	<b>CRI ≥ 70 (good - according to EN 62717 criteria)</b>
Colour consistency	<b>MacAdam 5-step</b>
Photobiological risk	<b>RG0 - Exempt Group (EN 62471)</b>
Residual flicker	<b>&lt; 1%</b>
Lifetime	<b>L90 B10 @110,000H Tq=40°C;</b>
Insulation class	<b>II</b>
Supply voltage	<b>220-240V 50/60Hz</b>
Control/dimming system	<b>Upon request for remote controlled versions</b>
Surge protection	<b>10 kV common mode, 8kV differential mode (EN 61000-4-5)</b>
Power factor	<b>≥ 0.98</b>
Ambient functioning temp.	<b>Min -30°C - Max +45°C;</b>
Power supply	<b>16A 2P IP67 IEC EN 60309-1/-2 plug with FTG10(O)M1 1.5 mm² cable;</b>
Warranty	<b>2 years with optional extension to 10</b>
Ambient storage temp.	<b>Min -40°C; Max +70°C</b>
Certification and approval marks	<b>CE, ENEC</b>
Directives	<b>2014/30/EU (EMC), 2014/35/EU (LVD), 2011/65/EU (RoHS)</b>
Product standards	<b>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</b>

Tunnel  
110,000h



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

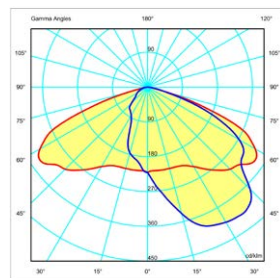


No. of LEDs	Floodlight size	Device power (W)	Nominal flux (lm) Tj= 25 °C	Output flux (lm) Tq= 25 °C	Version	Palazzoli code	Pack Qty
4		35	5220	4160	standard on-off	<b>811404</b>	1
6		51	7830	6240		<b>811406</b>	1
8		67	10440	8320		<b>811408</b>	1
9	S 288x440	75	11745	9360		<b>811409</b>	1
12		100	15660	12480		<b>811412</b>	1
14		116	18270	14560		<b>811414</b>	1
15		124	19575	15600		<b>811415</b>	1
18		152	23490	19468		<b>812418</b>	1
24	M 481x390	203	31320	25388		<b>812424</b>	1
30		253	39150	31850		<b>812430</b>	1
36		303	46980	38220		<b>812436</b>	1
42	L 799x390	349	54810	43863		<b>812442</b>	1
48		397	62640	49663		<b>812448</b>	1
60	XXL 1290x390	507	78300	63608		<b>812460</b>	1

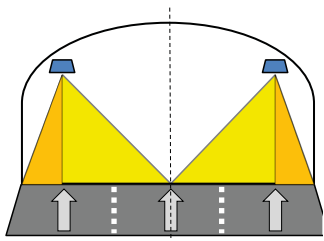
Equipment included: power supply through 16A 2P IP67 IEC EN 60309-1/-2 plug with FTG10(O)M1 1.5 mm<sup>2</sup> cable.  
Notes: the stated values may be subject to a +/- 7% tolerance.  
Dimmable version on request.

# Tunnel

110,000h



Tunnel floodlights with **PA3 axially symmetrical** and **transversally asymmetrical 25° optics**  
**IP66**

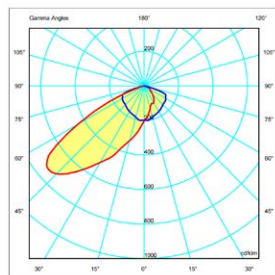


No. of LEDs	Floodlight size	Device power (W)	Nominal flux (lm) Tj= 25 °C	Output flux (lm) Tq= 25 °C	Version	Palazzoli code	Pack Qty
4		35	5220	4160	standard on-off	<b>811454</b>	1
6		51	7830	6240		<b>811456</b>	1
8		67	10440	8320		<b>811458</b>	1
9	S 288x440	75	11745	9360		<b>811459</b>	1
12		100	15660	12480		<b>811462</b>	1
14		116	18270	14560		<b>811464</b>	1
15		124	19575	15600		<b>811465</b>	1
18		152	23490	18889		<b>812318</b>	1
24	M 481x390	203	31320	24634		<b>812324</b>	1
30		253	39150	30904		<b>812330</b>	1
36		303	46980	37085		<b>812336</b>	1
42	L 799x390	349	54810	42560		<b>812342</b>	1
48		397	62640	48188		<b>812348</b>	1
60	XXL 1290x390	507	78300	61719		<b>812360</b>	1

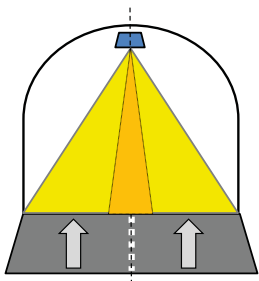
Equipment included: power supply through 16A 2P IP67 IEC EN 60309-1/-2 plug with FTG10(O)M1 1.5 mm<sup>2</sup> cable.  
Notes: the stated values may be subject to a +/- 7% tolerance.  
Dimmable version on request.

# Tunnel

110,000h



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

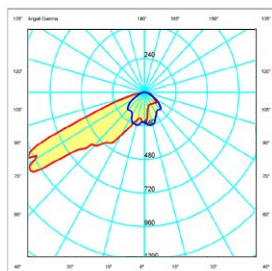


No. of LEDs	Floodlight size	Device power (W)	Nominal flux (lm) Tj= 25 °C	Output flux (lm) Tq= 25 °C	Version	Palazzoli code	Pack Qty
4		35	5220	4160	standard on-off	<b>811504</b>	1
6		51	7830	6240		<b>811506</b>	1
8		67	10440	8320		<b>811508</b>	1
9	S 288x440	75	11745	9360		<b>811509</b>	1
12		100	15660	12480		<b>811512</b>	1
14		116	18270	14560		<b>811514</b>	1
15		124	19575	15600		<b>811515</b>	1
18		152	23490	19275		<b>812518</b>	1
24	M 481x390	203	31320	25137		<b>812524</b>	1
30		253	39150	31535		<b>812530</b>	1
36		303	46980	37841		<b>812536</b>	1
42	L 799x390	349	54810	43429		<b>812542</b>	1
48		397	62640	49171	<b>812548</b>	1	
60	XXL 1290x390	507	78300	62978	<b>812560</b>	1	

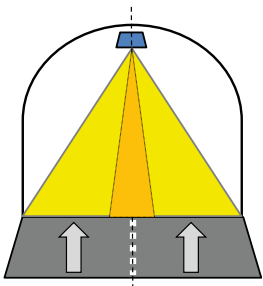
Equipment included: power supply through 16A 2P IP67 IEC EN 60309-1/-2 plug with FTG10(O)M1 1.5 mm<sup>2</sup> cable.  
Notes: the stated values may be subject to a +/- 7% tolerance.  
Dimmable version on request.

# Tunnel

110,000h



Tunnel floodlights with **RS3 axial counterflux** and **transversally symmetrical 62° 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		35	5220	4160	standard on-off	<b>811654</b>	1
6		51	7830	6240		<b>811656</b>	1
8		67	10440	8320		<b>811658</b>	1
9	S 288x440	75	11745	9360		<b>811659</b>	1
12		100	15660	12480		<b>811662</b>	1
14		116	18270	14560		<b>811664</b>	1
15		124	19575	15600		<b>811665</b>	1
18		152	23490	18311		<b>812618</b>	1
24	M 481x390	203	31320	23880		<b>812624</b>	1
30		253	39150	29958		<b>812630</b>	1
36		303	46980	35949		<b>812636</b>	1
42	L 799x390	349	54810	41257		<b>812642</b>	1
48		397	62640	46713		<b>812648</b>	1
60	XXL 1290x390	507	78300	59829		<b>812660</b>	1

Equipment included: power supply through 16A 2P IP67 IEC EN 60309-1/-2 plug with FTG10(O)M1 1.5 mm<sup>2</sup> cable.  
Notes: the stated values may be subject to a +/- 7% tolerance.  
Dimmable version on request.



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

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



Pair of quick fitting brackets  
in AISI 304 stainless steel  
for axial adjustment  
for X-TIGUA luminaires

Manufacturing material	For floodlight size	Axial adjustment	Trunking size	Palazzoli code	Pack Qty
AISI 304 stainless steel	M L XXL	6°	100x75	<b>812931</b>	1
			200x75	<b>812932</b>	1
			300x75	<b>812933</b>	1
			100x100	<b>812934</b>	1
			200x100	<b>812935</b>	1
	M L XXL	8°	100x75	<b>812937</b>	1
			200x75	<b>812938</b>	1
			300x75	<b>812939</b>	1
			100x100	<b>812940</b>	1
			200x100	<b>812941</b>	1
	M L XXL	10°	100x75	<b>812943</b>	1
			200x75	<b>812944</b>	1
			300x75	<b>812945</b>	1
			100x100	<b>812946</b>	1
			200x100	<b>812947</b>	1
			300x100	<b>812948</b>	1



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	100x75	<b>811900</b>	1
		200x75	<b>811901</b>	1
	M	300x75	<b>811902</b>	1
	L	100x100	<b>811903</b>	1
	XXL	200x100	<b>811904</b>	1
		300x100	<b>811905</b>	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	100x75	<b>811925</b>	1
		200x75	<b>811926</b>	1
	M	300x75	<b>811927</b>	1
	L	100x100	<b>811928</b>	1
	XXL	200x100	<b>811929</b>	1
		300x100	<b>811930</b>	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,XXL	<b>811906</b>	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,XXL	<b>811907</b>	1

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55686E

# X-TIGUA

by Palazzoli

*Lighting to save*

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# Palazzoli