



| ZONE | GAS | | | DUST | | |
|--------|-----|---|---|------|----|----|
| | 0 | 1 | 2 | 20 | 21 | 22 |
| USABLE | | X | X | | X | X |

Watertight light fixtures in AISI 304 stainless steel for applications in explosion hazardous areas as defined in ATEX 2014/34/EU Directive.

The diffuser is made of tempered glass. The fixing hooks are in AISI 304 stainless steel.

The sealing is guaranteed by a gasket reinforced in non-ageing elastomer.

Complete with corrosion resistant non-loosening terminals and non-sparking lamp holders. Supplied with M20 cable gland.

Complete with internal and external earth connection.

Compliance with standards

Directive ATEX 2014/34/EU
EN 60079-0
EN 60079-7
EN 60079-18
EN 60079-31
Directive 2014/35/EU
EN 60598-1
EN 60598-2-1
EN 62493
Directive 2014/30/EU
EN 55015
EN 61547
EN 61000-3-2
EN 61000-3-3
Directive 2011/65/EU
EN 50581

Atex execution

II 2G 2D
Ex and mb IIC T4 Gb
Ex tb IIIC T 70 °C Db

Casing material **AISI 304 stainless steel**

Diffuser material **Tempered glass**

Protection rating (IP according to IEC/EN 60529) **IP66**

Supply voltage **110 - 240 Vac-dc**

Operating frequency **0-50-60Hz**

Power factor **≥ 0.9**

Lamp holder **G13 T8 preventing the unhooking**

Max conductor cross-section **4 mm²**

Entry cable diameter **7-12 mm**

Insulation class **I**

Operating temperature **-40°C - +55°C**



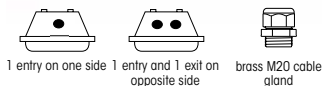
The photometric curves (LDT files) are available on www.palazzoli.com



SUITABLE FOR ZONE 1-2 (GAS) AND 21-22 (DUST)



Light fixtures
in stainless steel-glass
with white reflector
IP66



| Power (W) | Length (mm) | For tubes type | Version | Photometric curves | Palazzoli code | Pack Qty |
|-----------|-------------|----------------|----------|--------------------|-----------------|----------|
| 1X18 | 690 | T8 | standard | 8 | 822181EX | 1 |
| 1X36 | 1300 | | | 8 | 822281EX | 1 |
| 2X18 | 690 | | | 9 | 822182EX | 1 |
| 2X36 | 1300 | | | 9 | 822282EX | 1 |

Features: fluorescent tubes are not included.
Light fixture predisposed with 2+1 M20 holes for in-out connection.
2 M8 threaded holes for fixing the accessories.



Pair of eyebolts
for pendant mounting
of steel light fixtures
with screw coupling

| Manufacturing material | Palazzoli code | Pack Qty |
|--------------------------|----------------|----------|
| AISI 304 stainless steel | 820011 | 1 |

Equipment included: screws and accessories for fixing.



Pair of adjustable supports
for wall or ceiling mounting
of steel light fixtures
with screw coupling

| Rotation angle | Manufacturing material | Palazzoli code | Pack Qty |
|----------------|--------------------------|----------------|----------|
| ± 75° | AISI 304 stainless steel | 820010 | 1 |

Equipment included: screws and accessories for fixing.



Pair of collars
for mounting on tube
of steel light fixtures
with screw coupling

| Manufacturing material | Tube diameter ø (mm) | Palazzoli code | Pack Qty |
|--------------------------|----------------------|----------------|----------|
| AISI 304 stainless steel | 60 | 820016 | 1 |

Equipment included: screws and accessories for fixing.



Pair of brackets
for ceiling mounting
of steel light fixtures
with screw coupling

| Manufacturing material | Palazzoli code | Pack Qty |
|--------------------------|----------------|----------|
| AISI 304 stainless steel | 820017 | 1 |

Equipment included: screws and accessories for fixing.



Symmetrical reflectors
in aluminium
for steel light fixtures

| Manufacturing material | For light fixtures (W) | Palazzoli code | Pack Qty |
|------------------------|------------------------|----------------|----------|
| aluminium | 18 | 820002 | 1 |
| | 36 | 820003 | 1 |



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| USABLE | | | X | | X | X |

Watertight light fixtures in AISI 304 stainless steel for applications in explosion hazardous areas as defined in ATEX 2014/34/EU Directive.

The diffuser is made of tempered glass. The fixing hooks are in AISI 304 stainless steel.

The sealing is guaranteed by a gasket reinforced in non-ageing elastomer.

Complete with corrosion resistant non-loosening terminals and non-sparking lamp holders. Supplied with M20 cable gland.

Complete with internal and external earth connection.

Compliance with standards

Directive ATEX 2014/34/EU
EN 60079-0
EN 60079-15
EN 60079-31
Directive 2014/35/EU
EN 60598-1
EN 60598-2-1
EN 60598-2-22
EN 62493
Directive 2014/30/EU
EN 55015
EN 61547
EN 61000-3-2
EN 61000-3-3
Directive 2011/65/EU
EN 50581

Atex execution

II 3G 2D
Ex nA IIC T4 Gc
Ex tb IIIC T 85 °C Db

II 3G 3D
Ex nR IIC T6 Gc
Ex tc IIIC T 70 °C Dc (emergency)

Casing material **AISI 304 stainless steel**

Diffuser material **Tempered glass**

Protection rating (IP according to IEC/EN 60529) **IP66**

Supply voltage **230 Vac-dc**

Operating frequency **0-50-60Hz**

Power factor **≥ 0.9**

Lamp holder **G13 T8**

Max conductor cross-section **2.5 mm²**

Entry cable diameter **10 - 14 mm**

Emergency battery lifetime **1h**

Emergency battery charging time **24h**

Insulation class **I**

Operating temperature **-20°C - +40°C (2 tubes)**
-20°C - +50°C (1 tube)



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

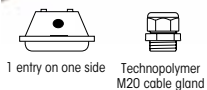
Technical data sheets updated to new standards on palazzoli.com website



SUITABLE FOR ZONE 2 (GAS) AND 21-22 (DUST)



Light fixtures
in stainless steel-glass
with **white reflector**
IP66



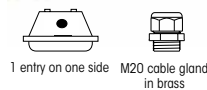
| Power (W) | Length (mm) | For tubes type | Version | Photometric curves | Palazzoli code | Pack Qty |
|-----------|-------------|----------------|-----------|--------------------|-----------------|----------|
| 1X18 | 690 | T8 | standard | 8 | 822131EX | 1 |
| 1X36 | 1300 | | | 8 | 822231EX | 1 |
| 1X58 | 1600 | | | 8 | 822331EX | 1 |
| 2X18 | 690 | | | 9 | 822132EX | 1 |
| 2X36 | 1300 | | | 9 | 822232EX | 1 |
| 2X58 | 1600 | | | 9 | 822332EX | 1 |
| (1+1)x18 | 690 | T8 | emergency | 9 | 822111EX | 1 |
| (1+1)x36 | 1300 | | | 9 | 822211EX | 1 |
| (1+1)x58 | 1600 | | | 9 | 822311EX | 1 |

Equipment included: pair of hooks in AISI 304 steel for pendant mounting, code 820001.
Features: fluorescent tubes are not included.
Notes: emergency light fixtures are suitable for zone 2-22.

Technical accessories:



Light fixtures
in stainless steel - glass
with **symmetrical**
aluminium reflector
IP66



| Power (W) | Length (mm) | For tubes type | Version | Photometric curves | Palazzoli code | Pack Qty |
|-----------|-------------|----------------|-----------|--------------------|-----------------|----------|
| 1X18 | 690 | T8 | standard | 10 | 820131EX | 1 |
| 1X36 | 1300 | | | 10 | 820231EX | 1 |
| 1X58 | 1600 | | | 10 | 820331EX | 1 |
| 2X18 | 690 | | | 11 | 820132EX | 1 |
| 2X36 | 1300 | | | 11 | 820232EX | 1 |
| 2X58 | 1600 | | | 11 | 820332EX | 1 |
| (1+1)x18 | 690 | T8 | emergency | 11 | 820111EX | 1 |
| (1+1)x36 | 1300 | | | 11 | 820211EX | 1 |
| (1+1)x58 | 1600 | | | 11 | 820311EX | 1 |

Equipment included: pair of hooks in AISI 304 steel for pendant mounting, code 820001.
Features: fluorescent tubes are not included.
Notes: emergency light fixtures are suitable for zone 2-22.

Technical accessories:





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|--------|-----|---|---|------|----|----|
| | 0 | 1 | 2 | 20 | 21 | 22 |
| USABLE | | | X | | | X |

Watertight light fixtures in AISI 2014/34 stainless steel for applications in explosion hazardous areas as defined in ATEX Directive 304/EU.

The light fixture is equipped with LED strips, 4000K colour temperature and CRI \geq 80, installed on an ultra-bright aluminium reflector.

The body is cold-drawn in a single piece.

The diffuser is in tempered glass without metallic frame. The IP66 rating is guaranteed by a reinforced gasket in non-ageing elastomer and hooks in stainless steel AISI304.

The cable entry is made with an M20 cable gland in technopolymer.

| | |
|---|---|
| Compliance with standards | Directive ATEX 2014/34/EU EN60079-0 EN60079-15 EN60079-31 Directive 2014/35/EU EN 60598-1 EN 60598-2-1 EN 62471 EN 60598-2-22 EN 62493 IEC/TR 62778 Directive 2014/30/EU EN 55015 EN 61547 EN 61000-3-2 EN 61000-3-3 Directive 2011/65/EU EN 50581 |
| Atex execution | II 3G 3D Ex nR IIC T6 Gc Ex tc IIIC T 70 °C Dc |
| Body material | AISI 304 stainless steel Painted galvanised steel |
| Diffuser material | Tempered glass |
| Protection rating (IP according to IEC/EN 60529) | IP66 |
| Paint | Non-toxic polyester resistant to weather conditions and UV rays |
| Colour | RAL 9016 (painted galvanised steel version) |
| Impact resistance (IK rating according to IEC/EN 62262) | IK09 |
| Colour temperature | 4000K |
| CRI | \geq 80 |
| Insulation class | I |
| Supply voltage | 220V - 240V |
| Operating frequency | 50-60Hz |
| Input surge protection | 2 kV EN 61000 |
| Photobiological risk | Exempt |
| Power factor | \geq 0.95 |
| Max conductor cross-section | 2.5 mm² |
| Entry cable diameter | 10-14 mm |
| Emergency battery lifetime | 1h |
| Emergency battery charging time | 24h |
| Estimated device lifetime | L80 B20 @50.000h Tq=25°C |
| Storage temperature | -40°C - +70°C |
| Operating temperature | -25°C - +40°C |



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

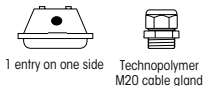
Technical data sheets updated to new standards on palazzoli.com website



SUITABLE FOR ZONE 2 (GAS) AND 22 (DUST)



LED light fixtures in **stainless steel - glass** with **extra wide beam optics IP66**



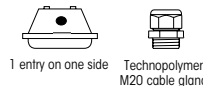
| Device power (W) | Length (mm) | Rated flux (lm) Tj= 25 °C | Version | Photometric curves | Palazzoli code | Pack Qty |
|------------------|-------------|---------------------------|-----------|--------------------|-----------------|----------|
| 24 | 690 | 3.300 | standard | 19 | 822142EX | 1 |
| 38 | 1300 | 5.600 | | 20 | 822242EX | 1 |
| 44 | 1600 | 6.500 | | 21 | 822342EX | 1 |
| 19 | 690 | 2.750 | emergency | 22 | 822140EX | 1 |
| 36 | 1300 | 5.250 | | 23 | 822240EX | 1 |
| 44 | 1600 | 6.500 | | 21 | 822340EX | 1 |

Equipment included: pair of hooks in AISI 304 steel for pendant mounting, code 820001.
Notes: the stated values may be subject to a +/- 7% tolerance.

Technical accessories:



LED light fixtures in **painted galvanised steel-glass** with **extra wide beam optics IP66**



| Device power (W) | Length (mm) | Rated flux (lm) Tj= 25 °C | Version | Photometric curves | Palazzoli code | Pack Qty |
|------------------|-------------|---------------------------|-----------|--------------------|-----------------|----------|
| 24 | 690 | 3.300 | standard | 19 | 842142EX | 1 |
| 38 | 1300 | 5.600 | | 20 | 842242EX | 1 |
| 19 | 690 | 2.750 | emergency | 22 | 842140EX | 1 |
| 36 | 1300 | 5.250 | | 23 | 842240EX | 1 |

Equipment included: pair of hooks in AISI 304 steel for pendant mounting, code 820001.
Notes: the stated values may be subject to a +/- 7% tolerance.

Technical accessories:



EMERGENCY FLUX

| Rated flux (lm) Tj= 25 °C | Rated flux in emergency (lm) |
|---------------------------|------------------------------|
| 2.750 | 962 |
| 5.250 | 945 |
| 6.500 | 975 |

Notes: the emergency flux is achieved by reducing the rated flux of the unit.



| ZONE | GAS | | | DUST | | |
|--------|-----|---|---|------|----|----|
| | 0 | 1 | 2 | 20 | 21 | 22 |
| USABLE | | | | | | X |

MITO LED-EX is suitable for use in explosion hazardous areas according to ATEX directive 2014/34/EU.

MITO LED-EX guarantees specific lighting and mechanical characteristics for installation in industrial environments, food industries and outdoor areas. The body is made of die-cast aluminium with anti-corrosion treatment, finished with a scratch-resistant powder coating.

The diffuser, made of 4 mm extra-clear tempered glass, guarantees maximum resistance in harsh environments with chemical substances.

Thanks to the different optics available in the catalogue (extra wide beam, narrow beam, elliptical beam and asymmetrical beam), the working areas can be illuminated in the best possible way, guaranteeing visual comfort and the best lighting performance.

| | |
|---|--|
| Compliance with standards | Directive ATEX 2014/34/EU EN 60079-0 EN 60079-31 Directive 2014/35/EU EN 60598-1 EN 60598-2-1 EN 62471 EN 62493 IEC/TR 62778 Directive 2014/30/EU EN 55015 EN 61547 EN 61000-3-2 EN 61000-3-3 Directive 2011/65/EU EN 50581 |
| Atex execution | II 3D Ex tc IIIC T100 °C Dc |
| Body material | EN 46100 aluminium alloy |
| Surface treatment | Fluoro-zirconium treatment |
| Diffuser material | Extra clear tempered glass |
| Protection rating (IP according to IEC/EN 60529) | IP66 |
| Paint | Hot-polymerised non-toxic polyester |
| Colour | RAL 9005 |
| Impact resistance (IK rating according to IEC/EN 62262) | IK08 |
| Corrosion class | C3 according to ISO 9223 |
| Weight | max 9.5 kg |
| LED device efficiency | ≥ 106 lm/W |
| Colour temperature | 4000K (other temperatures on request) |
| CRI | ≥ 80 |
| Insulation class | I |
| Supply voltage | 200-240V |
| Operating frequency | 50-60 Hz |
| Input surge protection | 10kV common mode 6 kV differential mode EN 61000 |
| Residual flicker | < 1% |
| Photobiological risk | Exempt |
| Glare index | UGR ≤ 22 |
| Power factor | ≥ 0.95 |
| Max conductor cross-section | 1.5 mm² |
| Entry cable diameter | 7-13 mm |
| Cable entry | ATEX cable gland M20 |
| Estimated device lifetime | L80 B20 @110.000h Tq= -30 °C to +40 °C |
| Storage temperature | -40 °C - +70 °C |
| Operating temperature | -30 °C to + 40 °C (up to +55 °C or other special configurations on request. Table on page 270) |

