



Palazzoli
GROUP



SMART SOLUTIONS FOR **LED LIGHTING**

Industrial & Commercial





Palazzoli
GROUP



LUX was born creating a family of premium industrial and commercial LED lighting products within the UK market

EXPERTLY MADE IN ITALY PROFESSIONALLY DISTRIBUTED IN THE UK

Established in 1946, Lewden is renowned as a supplier of high quality, innovative electrical solutions in the UK market.

The engineering prowess of the company was enhanced in 2006 when it became a part of the Palazzoli group.

With over a hundred years of industrial excellence as a manufacturer of electrical products, Palazzoli has a state of the art manufacturing plant in Brescia, Northern Italy boasting the latest technology and innovation in developing quality engineered products.

Its lighting division has expertly engineered, designed and manufactured leading commercial and industrial lighting fixtures within the European market for over thirty years.

OVER
100 YEARS
OF INDUSTRIAL
EXCELLENCE

OVER
THREE DECADES
OF LIGHTING
EXPERTISE

EACH FITTING INDIVIDUALLY FACTORY TESTED
**MADE
IN
ITALY**

TESTING & WARRANTY

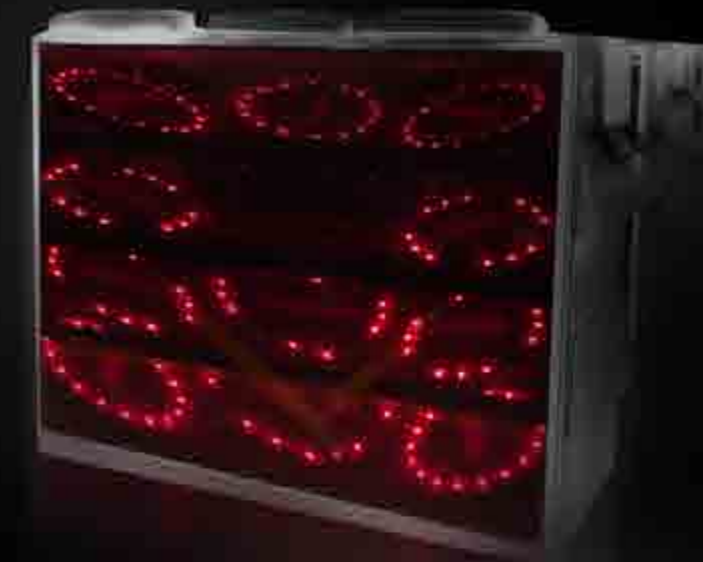
Each fitting is 100% individually tested with 24hr burn-in tests in our Italian manufacturing facility.

All products are certified to the latest European standards. Expertly made in Italy all products are professionally distributed within the UK through Lewden.

Our experienced lighting product designers continue to work with specifiers, architects and installers as they strive for excellence in meeting the ever-changing needs of customers.



**5 YEARS
WARRANTY**



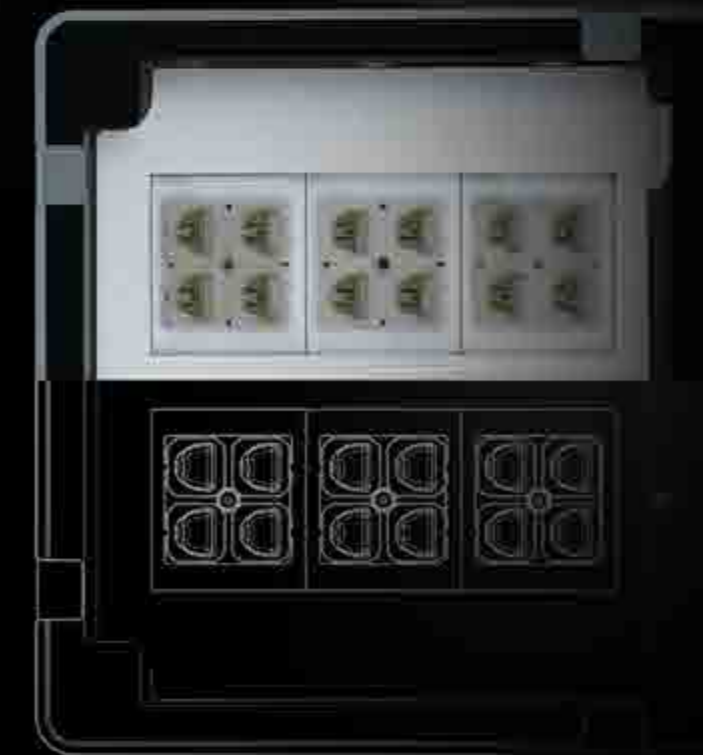
**reddot award 2018
winner**

FUTURE PROOF AESTHETIC DESIGN

All Lewden Lux products have been developed with a "future-proof" chassis. As the technology within our products changes, the aesthetics of the product remains the same ensuring that replacement fixtures will retain an identical appearance when installed alongside existing fixtures.

All of our products carry a five year warranty that is simply claimed through proof of purchase.

Lewden is a member of the Lighting Industry Association (LIA) and Lumicom to ensure compliance to best industry practices and that we are at the forefront of the latest industry developments



KEY PERFORMANCE CRITERIA

IP
Ingress Protection Rating

Our LUX range of light fixtures is totally protected against ingress of dust and the effects of being subject to powerful jets of water and temporary water immersion within defined duration and pressure

1st digit
PROTECTION AGAINST PENETRATION
OF SOLID FOREIGN BODIES

6 Totally protected against dust.

conditions in the international standard EN 60529 (British BS EN 60529:1992, European IEC 60509:1989).

2nd digit
PROTECTION AGAINST
PENETRATION OF LIQUIDS

- 5 Protected against jets of water coming from all directions.
- 6 Protected against powerful water jets.
- 7 Protected against the effects of temporary water immersion within defined duration and pressure conditions.

C
Corrosion Criteria

ISO 9223:2012 establishes a classification system for the corrosion of metals and alloys, corrosivity of atmospheres, their classification, determinations and estimation. It defines corrosivity categories for the atmospheric environments by the first-year corrosion rate of standard specimens and makes possible an informative estimation of the corrosivity category based on knowledge of the local environmental situation.

Our lighting fixtures have a range of corrosion classes from C3 to C5 that makes them suitable for exterior installations in urban and industrial environments with low to high levels of pollution or coastal areas with low to high concentration of chlorides and interior manufacturing spaces with high humidity and high air pollution, for example swimming pools, chemical plants, buildings or permanent condensation areas.

CORROSION CLASS	TYPICAL ENVIRONMENTS EXAMPLES	
	EXTERIOR	INTERIOR
C3 MEDIUM	Urban and industrial environments with moderate pollution or coastal areas with low concentration of chlorides	Manufacturing spaces with high humidity and low air pollution, for example swimming pools and chemical plants
C4 HIGH	Industrial environments with moderate pollution or coastal areas with moderate concentration of chlorides	Manufacturing spaces with high humidity and low air pollution, for example swimming pools and chemical plants
C5-I VERY HIGH (industrial)	Industrial environments with high humidity and high pollution	Buildings or permanent condense and high pollution areas
C5-M VERY HIGH (marine)	Coastal and marine areas with high concentration of chlorides	Buildings or permanent condense and high pollution areas

Lux Lighting Scheme

A part of the Lewden Lux promise is a comprehensive lighting scheme designed to your requirements in accordance with the latest standards. Lewden Lux can provide you with the technical support required for design and installation of your lighting project. Using 3D printing techniques, experienced lighting professionals will provide a detailed plan showing the optimum light levels and fixture positioning. We support you through every step during the realisation of the project.



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TIGUA^{Led} BAY

LED LOW BAY & HIGH BAY



Suspended fixtures
for Low Bay & High Bay applications

Universal Rectangular Body Size With Large Heat Sink Capacity In EN44300 Aluminium Alloy With Anti Scratch Passivation Treatment and RAL7011 Colour Finish.

Flexible relamping:
Complete availability of accessories for any installation need.

High protection:
The control gears are self-protected against the surges present on the industrial electricity networks up to 8kV

Plug & Play Electrical Connection
5 x 1.5mm² terminals

Light weight and compact
Easy to install weighing only 6.5 kg

Great versatility
The versatility of the available light outputs allows the ideal solution for any lowbay and highbay application.

Uniform Lighting
Multiple photometric solutions based on 5 Beam angles utilizing PMMA or PC Lenses

Key features



Anti condensation breather valve to vent pressure build-up inside the light fixture

Heat Dissipation is aided by The LED & Power Supply Positioning

Large Heat Sink Capacity In EN44300 Aluminium Alloy With Anti Scratch Passivation Treatment.

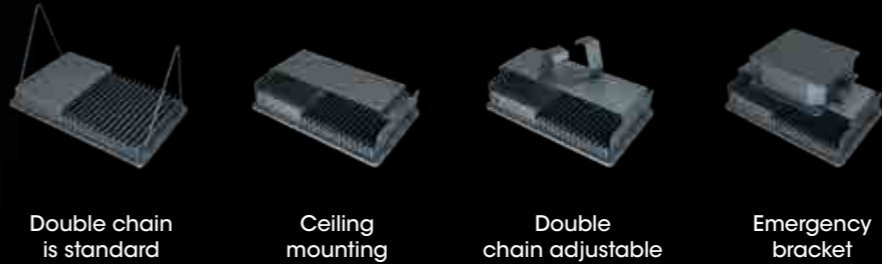
Emergency versions available

TIGUA^{Led} BAY

LED LOW BAY & HIGH BAY



Suspension options



Technical specifications

Conformity to standards	Directive 2014/35/UE EN 60598-1: 2015 EN 60598-2-1:1997 EN 60598-2-5: 2015 EN 60598-2-22: 2014 EN 62471: 2008 Directive 2014/30/UE EN 62493: 2015 Directive 2011/65/UE ENEC approval in progress	LED Colour Temperature	4000K
		CRI	≥ 80
		Insulation class	I
		Rated voltage	200-240 V 50-60 Hz (others in request)
Body material	EN 44300 die-cast aluminium	Protection against surge discharges	8 kV common mode 6 kV differential mode EN 61000 (10kV on request)
Surface treatment	Passivation with zirconium-fluoro or polycarbonate	Power factor	≥ 0,95
Diffuser material	Extraclear tempered glass or polycarbonate	Unified Glare Rating (UGR)	< 22
Painting	Hot polymerized non-toxic polyester	Max cable section	1,5 mm ²
Colour	RAL 7011	Entry cable diameter	7-13 mm
Weight	6,5 kg	Emergency battery lifetime	3 h
LED device efficiency	≥ 110 lm/W	Estimated device lifetime	L80B20 @ 120.000h Tq=-30 °C - +40 °C
		Storage temperature	-40 °C - +70 °C
		Operating temperature	-30 °C - +40 °C (on request up to +55°C or other special configurations)

Tigua Bay

LED Low Bay & High Bay Lighting - For Industrial Use



Extra wide beam
Glass Diffuser
Typical height of installation between 4m and 7m

Power (W)	Luminous flux (lm) Tj= 25 °C	Part numbers	Power Supply
33W	4625LM	817304	1-10V Dimmable Electronic
67W	9250LM	817308	
99W	13875LM	817312	
132W	18500LM	817316	
164W	23125LM	817320	
196W	27750LM	817324	Emergency
33W	4625LM	817305	
67W	9250LM	817309	
99W	13875LM	817313	
132W	18500LM	817317	
164W	23125LM	817321	
196W	27750LM	817325	

Medium beam
Glass Diffuser
Typical height of installation between 5m and 8m

Power (W)	Luminous flux (lm) Tj= 25 °C	Part numbers	Power Supply
33W	4625LM	817354	1-10V Dimmable Electronic
67W	9250LM	817358	
99W	13875LM	817362	
132W	18500LM	817366	
164W	23125LM	817370	
196W	27750LM	817374	Emergency
33W	4625LM	817355	
67W	9250LM	817359	
99W	13875LM	817363	
132W	18500LM	817367	
164W	23125LM	817371	
196W	27750LM	817375	



EMERGENCY
Emergency pack 811924 is required with Emergency lighting fixtures

1-10 V DIMMABLE
Dial on request

CORROSION C4
as for Per ISO9223

IP66
Dust and water jets/immersion

IK08
High impact resistance

ENERGY SAVING

CLASSIFICATION
Insulation Class I

LED
4000K
CRI>80

CONSTRUCTION
Body:EN44300 aluminium alloy
Diffuser: Extra clear tempered glass

Anti-scratch passivation treatment

Equipment included:
Support brackets for double chain and busbar trunking
Electrical supply through rapid connector
Note: the declared values may be subject to a tolerance of +/- 7%

Tigua Bay

LED Low Bay & High Bay Lighting - For Industrial Use



Narrow beam
Glass Diffuser
Typical height of installation above 6m

Power (W)	Luminous flux (lm) Tj= 25 °C	Part numbers	Power Supply
33W	4625LM	817404	1-10V Dimmable Electronic
67W	9250LM	817408	
99W	13875LM	817412	
132W	18500LM	817416	
164W	23125LM	817420	
196W	27750LM	817424	Emergency
33W	4625LM	817405	
67W	9250LM	817409	
99W	13875LM	817413	
132W	18500LM	817417	
164W	23125LM	817421	
196W	27750LM	817425	

Elliptical beam
Glass Diffuser
Suitable for high reach installations

Power (W)	Luminous flux (lm) Tj= 25 °C	Part numbers	Power Supply
33W	4625LM	817454	1-10V Dimmable Electronic
67W	9250LM	817458	
99W	13875LM	817462	
132W	18500LM	817466	
164W	23125LM	817470	
196W	27750LM	817474	Emergency
33W	4625LM	817455	
67W	9250LM	817459	
99W	13875LM	817463	
132W	18500LM	817467	
164W	23125LM	817471	
196W	27750LM	817475	



EMERGENCY
Emergency pack 811924 is required with Emergency lighting fixtures

1-10 V DIMMABLE
Dial on request

CORROSION C4
as for Per ISO9223

IP66
Dust and water jets/immersion

IK08
High impact resistance

ENERGY SAVING

CLASSIFICATION
Insulation Class I

LED
4000K
CRI>80

CONSTRUCTION
Body:EN44300 aluminium alloy
Diffuser: Extra clear tempered glass

Anti-scratch passivation treatment

Equipment included:
Support brackets for double chain and busbar trunking
Electrical supply through rapid connector
Note: the declared values may be subject to a tolerance of +/- 7%

Tigua Bay

LED Low Bay & High Bay Lighting - For Use in Food Industry (HACCP)



Extra wide beam
Polycarbonate Diffuser
Typical height of installation between 4m and 7m

Power (W)	Luminous flux (lm) Tj= 25 °C	Part numbers	Power Supply
33W	4625LM	817504	1-10V Dimmable Electronic
67W	9250LM	817508	
99W	13875LM	817512	
132W	18500LM	817516	
164W	23125LM	817520	
196W	27750LM	817524	Emergency
33W	4625LM	817505	
67W	9250LM	817509	
99W	13875LM	817513	
132W	18500LM	817517	
164W	23125LM	817521	
196W	27750LM	817525	

Medium beam
Polycarbonate Diffuser
Typical height of installation between 5m and 8m

Power (W)	Luminous flux (lm) Tj= 25 °C	Part numbers	Power Supply
33W	4625LM	817554	1-10V Dimmable Electronic
67W	9250LM	817558	
99W	13875LM	817562	
132W	18500LM	817566	
164W	23125LM	817570	
196W	27750LM	817574	Emergency
33W	4625LM	817555	
67W	9250LM	817559	
99W	13875LM	817563	
132W	18500LM	817567	
164W	23125LM	817571	
196W	27750LM	817575	



EMERGENCY
Emergency pack 811924 is required with Emergency lighting fixtures

1-10 V DIMMABLE
Dial on request

CORROSION C4
as for Per ISO9223

IP66
Dust and water jets/immersion

IK08
High impact resistance

ENERGY SAVING

CLASSIFICATION
Insulation Class I

LED
4000K
CRI>80

CONSTRUCTION
Body:EN44300 aluminium alloy
Diffuser:HACCP approved Polycarbonate

Equipment included:
Support brackets for double chain and busbar trunking
Electrical supply through rapid connector
Note: the declared values may be subject to a tolerance of +/- 7%

Tigua Bay

LED Low Bay & High Bay Lighting - For Use in Food Industry (HACCP)



Narrow beam
Polycarbonate Diffuser
Typical height of installation above 6m

Power (W)	Luminous flux (lm) Tj= 25 °C	Part numbers	Power Supply
33W	4625LM	817604	1-10V Dimmable Electronic
67W	9250LM	817608	
99W	13875LM	817612	
132W	18500LM	817616	
164W	23125LM	817620	
196W	27750LM	817624	Emergency
33W	4625LM	817605	
67W	9250LM	817609	
99W	13875LM	817613	
132W	18500LM	817617	
164W	23125LM	817621	
196W	27750LM	817625	

Elliptical beam
Polycarbonate Diffuser
Suitable for high reach installations

Power (W)	Luminous flux (lm) Tj= 25 °C	Part numbers	Power Supply
33W	4625LM	817654	1-10V Dimmable Electronic
67W	9250LM	817658	
99W	13875LM	817662	
132W	18500LM	817666	
164W	23125LM	817670	
196W	27750LM	817674	Emergency
33W	4625LM	817655	
67W	9250LM	817659	
99W	13875LM	817663	
132W	18500LM	817667	
164W	23125LM	817671	
196W	27750LM	817675	



EMERGENCY
Emergency pack 811924 is required with Emergency lighting fixtures

1-10 V DIMMABLE
Dial on request

CORROSION C4
as for Per ISO9223

IP66
Dust and water jets/immersion

IK08
High impact resistance

ENERGY SAVING

CLASSIFICATION
Insulation Class I

LED
4000K
CRI>80

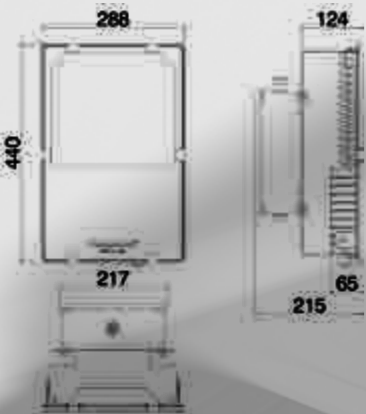
CONSTRUCTION
Body:EN44300 aluminium alloy
Diffuser:HACCP approved Polycarbonate

Equipment included:
Support brackets for double chain and busbar trunking
Electrical supply through rapid connector
Note: the declared values may be subject to a tolerance of +/- 7%

Tigua Bay

LED Low Bay & High Bay Lighting - ACCESSORIES

Dimensions with Emergency Kit



Support bracket for 0-90° adjustable double chain suspension

Manufacturing Material	Part number
Electrogalvanized steel	811919



Support bracket for ceiling mounting

Manufacturing Material	Part number
Electrogalvanized steel	811916



Kit for emergency

Manufacturing Material	Emergency battery lifetime
Boxes in aluminium alloy and bracket in Electrogalvanized steel	3h 811924

Luminous flux (lm) Tj= 25 °C	Flux in emergency (lm) 1-3h
4625LM	995
9250LM	
13875LM	
18500LM	
23125LM	
27750LM	

1-10 V DIMMABLE
Dial on request

CORROSION C4
as for Per ISO9223

IP66
Dust and water jets/immersion

IK08
High impact resistance

ENERGY SAVING

CLASSIFICATION
Insulation Class I

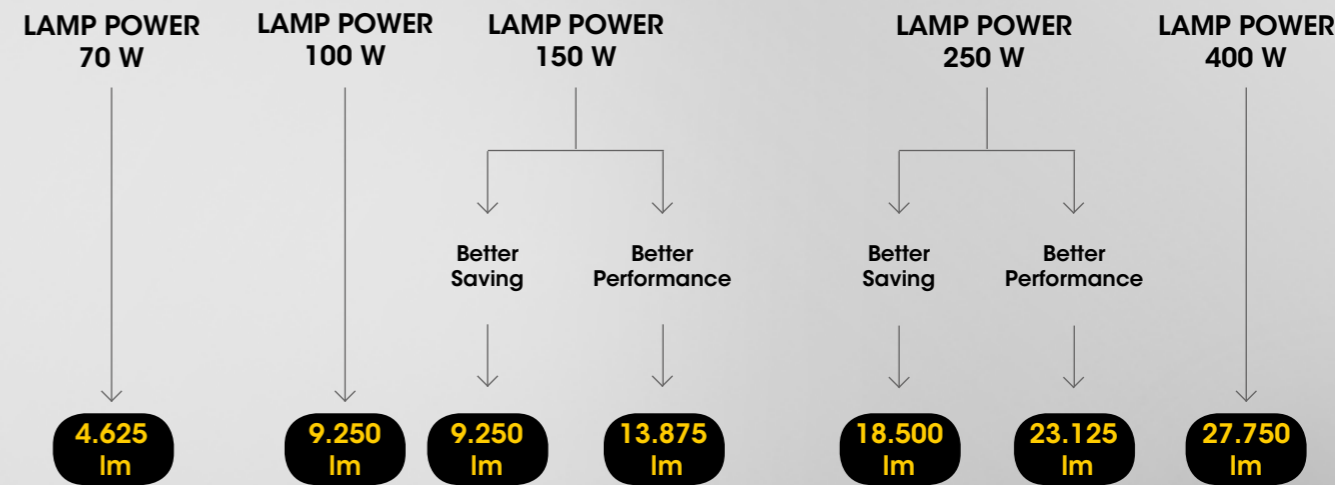
LED
4000K
CRI>80

CONSTRUCTION
Body:EN44300 aluminium alloy
Diffuser:Extra clear tempered glass

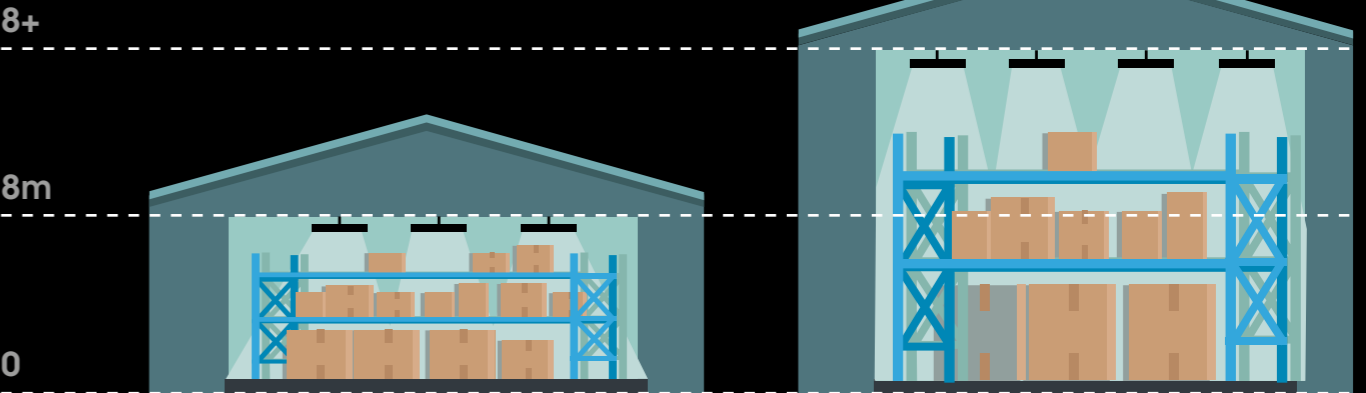
Anti-scratch passivation treatment

Equipment included:
The emergency kit is complete with junction box, battery, inverter and support for rapid pendant suspension.
Characteristics: No. 1 M20 entry; No. 1 output with connector.
Note: The support is suited for mounting fixed on double chain.

LED equivalents for existing installations using Sodium /Metal Halide Discharge Lamps

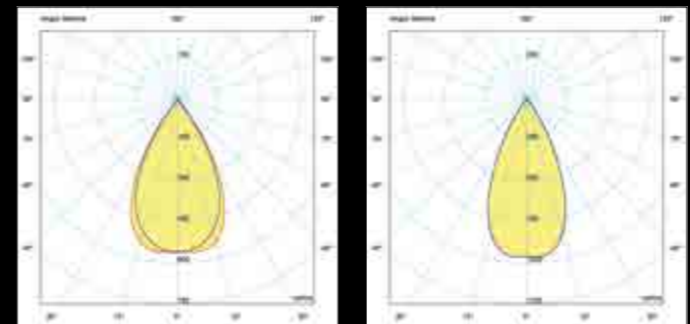


Installation height



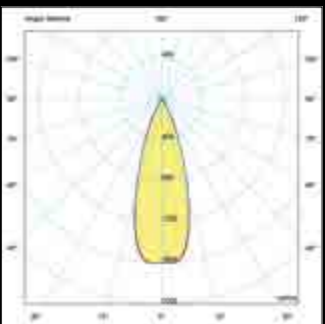
From 4 to 8 metres

Extra-wide or medium beam



Above 8 metres

Narrow beam





reddot award 2018
winner

**Retrofitting fixtures
for High Bay applications**

Universal Cyclical Body Size With Large Heat Sink Capacity In EN46100 Aluminium Die cast With Anti Scratch Passivation Treatment and RAL7011 Colour Finish.

Simple to retrofit

The pendant suspension system makes the fixture replacement operation simple and fast

High Thermal Performance

The helical shape of the heat sink guarantees a curved shape dissipation

High protection:

The control gear is protected against surge discharges up to 6kV between phases and 10kV phase to earth

Optimal flux distribution

In standard applications, thanks to the circular disposition of the LEDs, the lighting fixtures are always aligned

Key features



Simple to retro-fit

Pendant suspension fixing and plug in cable connector

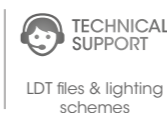


Emergency lighting
Versions available

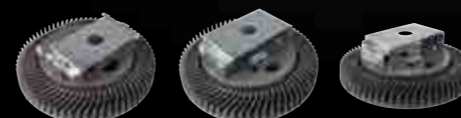


Easy connection

Thanks to the external connector there is no need to open the High Bay when wiring.



Suspension options



Pendant suspension as standard



Double chain adjustable



Floodlight adjustable bracket

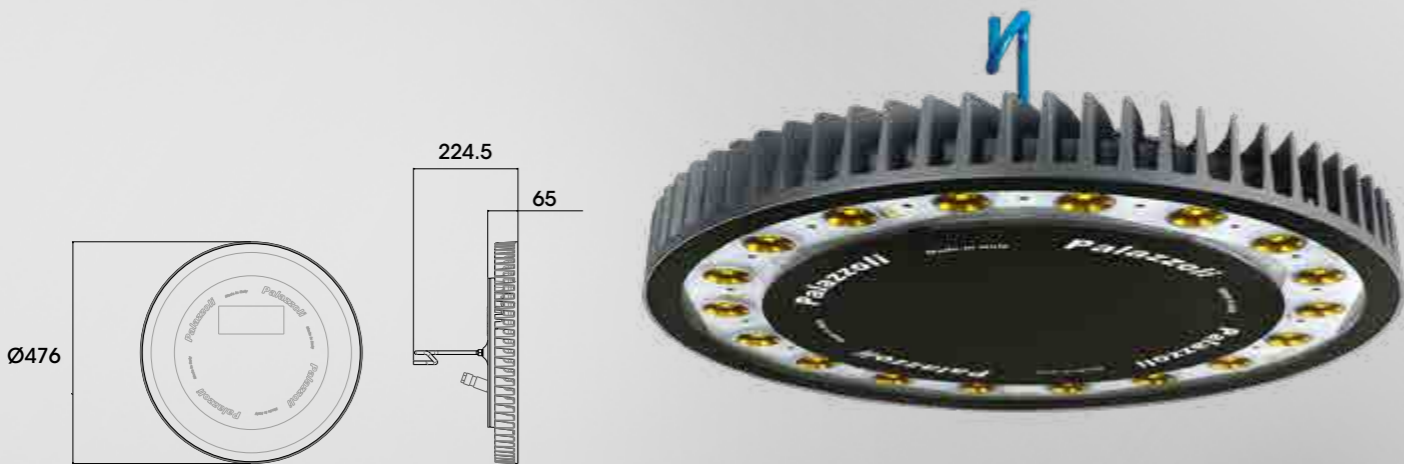
**ULTIMATE RETRO-FIT
SOLUTION**



Technical specifications

Conformity to standards	Directive 2014/35/EU EN 60598-1: 2015 EN 60598-2-1:1997 EN 60598-2-5: 2015 EN 60598-2-22: 2014 EN 62471: 2008 Directive 2014/30/EU EN 62493: 2015 Directive 2011/65/EU ENEC in progress for approval	CRI	≥ 80
		Insulation class	I (class II on request)
Body material	Aluminium alloy	Rated voltage	200-240 V 50-60 Hz
Surface treatment	Passivation with fluoro-zirconium	Protection against surge discharges	10 kV common mode 6 kV differential mode EN 61000
Diffuser material	Extraclear tempered glass or polycarbonate	Power factor	≥ 0,95
Painting	Hot polymerized non-toxic polyester	Unified Glare Rating (UGR)	≤ 22
Colour	RAL 7011	Max cable section	1,5 mm ²
Weight	9.5kg max	Entry cable diameter	7-13 mm
LED device efficiency	≥ 106 lm/W	Emergency battery lifetime	3 h
LED Colour Temperature	4000K (other temperatures on request)	Estimated device lifetime	L80 B20 @ 110.000h Tq=-30 °C - +40 °C
		Storage temperature	-40 °C - +70 °C
		Operating temperature	-30 °C - +40 °C (on request up to +55 °C or other special configurations)

Mito
LED High Bay Lighting - For Industrial Use



Extra wide beam - Symmetrical light distribution

Glass Diffuser
Typical height of installation between 5m and 9m

Table with 4 columns: Power (W), Luminous flux (lm) Tj= 25 °C, Part numbers, Power Supply. It lists specifications for 99W, 133W, 168W, and 199W models for both 1-10V Dimmable Electronic and Emergency power supplies.

Narrow beam - Symmetrical light distribution

Glass Diffuser
Typical height of installation above 9m

Table with 4 columns: Power (W), Luminous flux (lm) Tj= 25 °C, Part numbers, Power Supply. It lists specifications for 99W, 133W, 168W, and 199W models for both 1-10V Dimmable Electronic and Emergency power supplies.

Elliptical light distribution

Glass Diffuser
Suitable for installation between the aisles of the industrial warehouses, etc.

Table with 4 columns: Power (W), Luminous flux (lm) Tj= 25 °C, Part numbers, Power Supply. It lists specifications for 99W, 133W, 168W, and 199W models for both 1-10V Dimmable Electronic and Emergency power supplies.

1-10 V DIMMABLE
Dali on request

CORROSION C3
as for Per ISO9223

IP66 IP67
Dust and water jets/immersion

IK08
High impact resistance

ENERGY SAVING

CLASSIFICATION
Insulation Class I (II on request)

LED
4000K (other temperatures on request)
CRI>80

CONSTRUCTION
Body:EN46100 aluminium alloy
Diffuser:Extra clear tempered glass

Anti-scratch passivation treatment

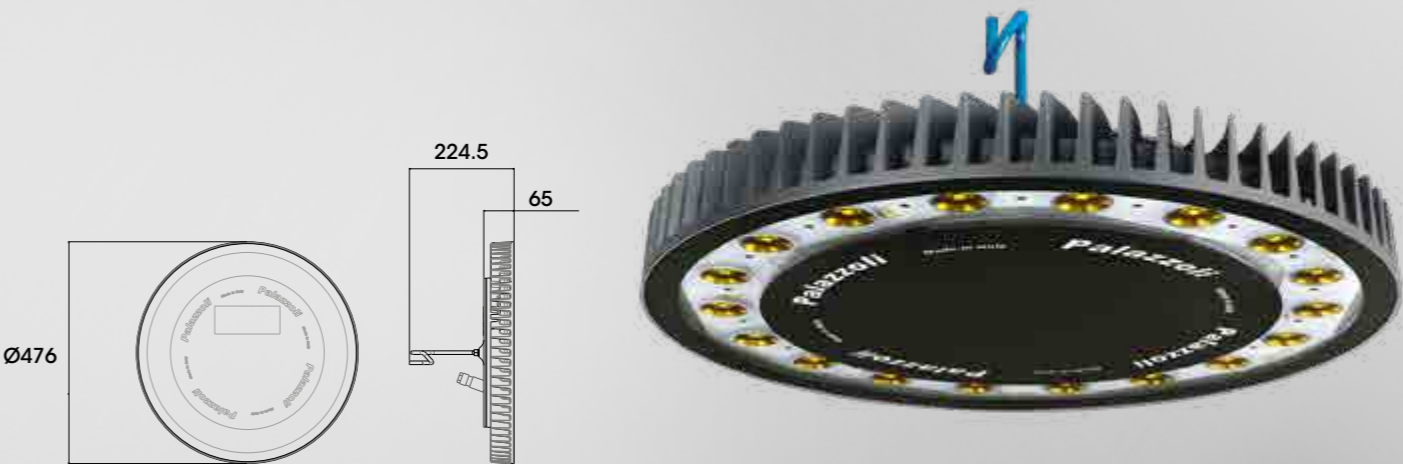
Equipment included:
Support for rapid pendant suspension
Electrical supply through rapid connector
Note: the luminous flux may be subject to a tolerance of +/- 7%

EMERGENCY

Pack 810991 is required with Emergency lighting fixtures



Mito
LED High Bay Lighting - Use in Food Industry (HACCP)



Extra wide beam - Symmetrical light distribution

Polycarbonate Diffuser
Typical height of installation between 5m and 9m

Table with 4 columns: Power (W), Luminous flux (lm) Tj= 25 °C, Part numbers, Power Supply. It lists specifications for 99W, 133W, 168W, and 199W models for both 1-10V Dimmable Electronic and Emergency power supplies.

Narrow beam - Symmetrical light distribution

Polycarbonate Diffuser
Typical height of installation above 9m

Table with 4 columns: Power (W), Luminous flux (lm) Tj= 25 °C, Part numbers, Power Supply. It lists specifications for 99W, 133W, 168W, and 199W models for both 1-10V Dimmable Electronic and Emergency power supplies.

Elliptical light distribution

Polycarbonate Diffuser
Suitable for high reach installation

Table with 4 columns: Power (W), Luminous flux (lm) Tj= 25 °C, Part numbers, Power Supply. It lists specifications for 99W, 133W, 168W, and 199W models for both 1-10V Dimmable Electronic and Emergency power supplies.

1-10 V DIMMABLE
Dali on request

CORROSION C3
as for Per ISO9223

IP66 IP67
Dust and water jets/immersion

IK08
High impact resistance

ENERGY SAVING

CLASSIFICATION
Insulation Class I (II on request)

LED
4000K (other temperatures on request)
CRI>80

CONSTRUCTION
Body:EN46100 aluminium alloy
Diffuser:Polycarbonate

Anti-scratch passivation treatment

Equipment included:
Support for rapid pendant suspension
Electrical supply through rapid connector
Note: the luminous flux may be subject to a tolerance of +/- 7%

EMERGENCY

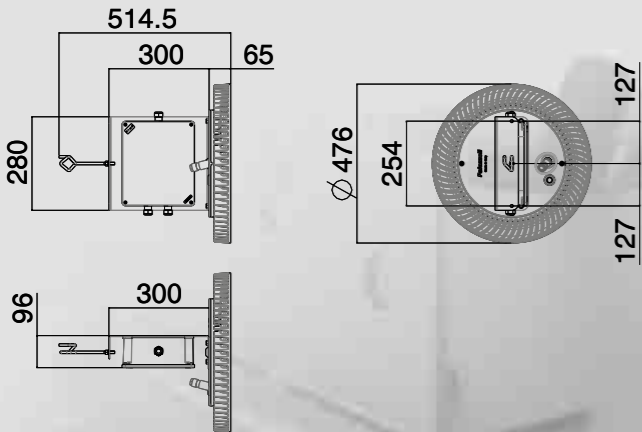
Pack 810991 is required with Emergency lighting fixtures



Mito

LED High Bay Lighting - ACCESSORIES

Dimensions with Emergency Kit



Support brackets for double chain suspension and cable tray suspension

Manufacturing Material	Part number
Electrogalvanized steel	810997



Support bracket for 0 - 90° adjustable double chain suspension

Manufacturing Material	Part number
Electrogalvanized steel	810996



Support brackets for ceiling mounting

Manufacturing Material	Part number
Electrogalvanized steel	810998



Support brackets for horizontal pole mounting 60 mm diameter

Manufacturing Material	Part number
Electrogalvanized steel	810995



Adjustable bracket for wall mounting, poles and lighting towers

Manufacturing Material	Part number
Electrogalvanized steel	810999



Protective wire guard

Manufacturing Material	Part number
Electrogalvanized steel	810993



Kit for emergency 3h

Manufacturing Material	Emergency battery lifetime	Part number
Aluminium alloy	3h	810991



1-10 V DIMMABLE
Dial on request



CORROSION C3
as for Per ISO9223



IP66 IP67
Dust and water jets/immersion



IK08
High impact resistance



ENERGY SAVING

CLASSIFICATION

Insulation Class I (II on request)

LED

4000K (other temperatures on request)
CRI>80

CONSTRUCTION

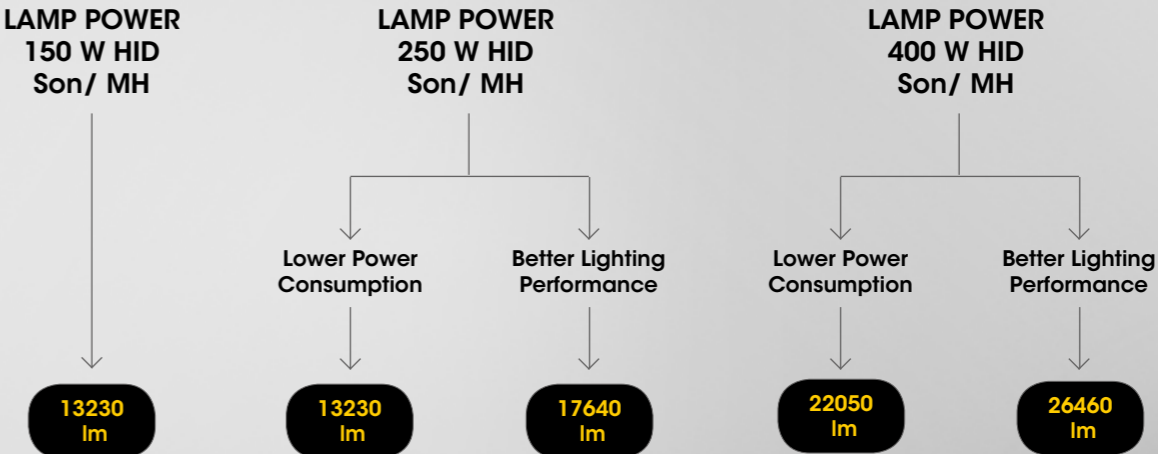
Body:EN46100 aluminium alloy
Diffuser:Glass & Polycarbonate

Anti-scratch passivation treatment

Equipment included:

Support for rapid pendant suspension
Electrical supply through rapid connector
Note: the luminous flux may be subject to a tolerance of +/- 7%

LED equivalents for existing installations using Sodium /Metal Halide Discharge Lamps

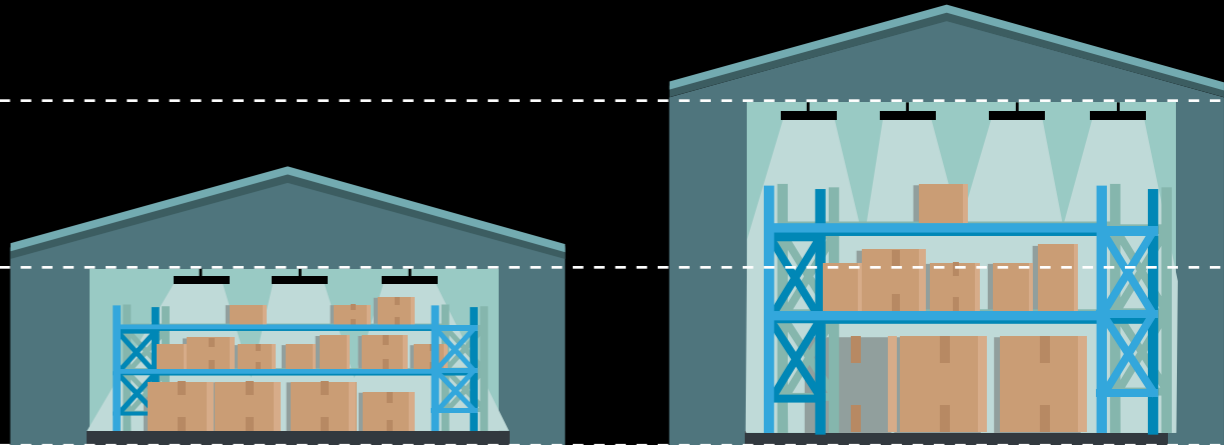


Installation height

9+

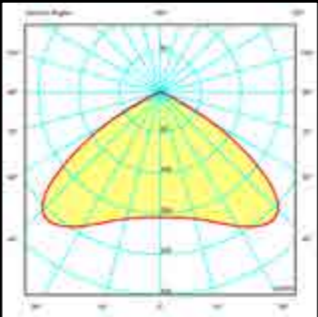
9m

0



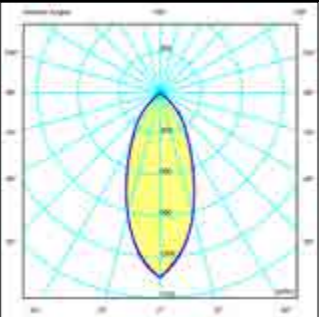
From 5 to 9 metres

Extra-wide distribution



Above 9 metres

Narrow distribution



TIGUA^{Led} FLOOD

LED FLOODLIGHT



Fixtures for Focused or Flood Illumination

Universal Rectangular Body Size With Large Heat Sink Capacity In EN44300 Aluminium Alloy With Anti Scratch Passivation Treatment and RAL7011 Colour Finish.

Light weight and compact
Easy to install weighing only 6.5 kg

Plug & Play Electrical Connection
IP67 (5x1.5mm terminals)

Optimum management of the lighting flux
Thanks to the many light distributions, you can illuminate different places: industrial, sport, architectural, etc.

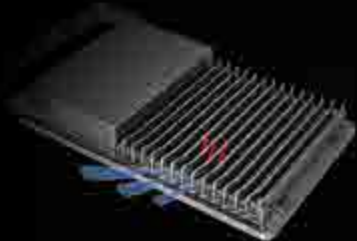
Uniform Lighting
Multiple photometric solutions based on 5 Beam angles utilizing PMMA or PC Lenses

Flexible
Easy to install (+135°) thanks to the adjustable bracket supplied with the fixture

Key features



Anti condensation breather valve to vent pressure build-up inside the light fixture



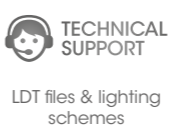
Heat Dissipation is aided By The LED & Power Supply Positioning



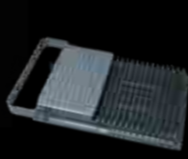
Large Heat Sink Capacity In EN44300 Aluminium Alloy With Anti Scratch Passivation Treatment.

TIGUA^{Led} FLOOD

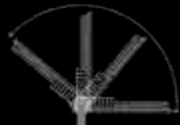
LED FLOODLIGHT



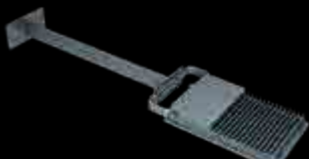
Suspension options



Adjustable wall bracket



Bracket for wall-mounting



Pole collar (adaptor)

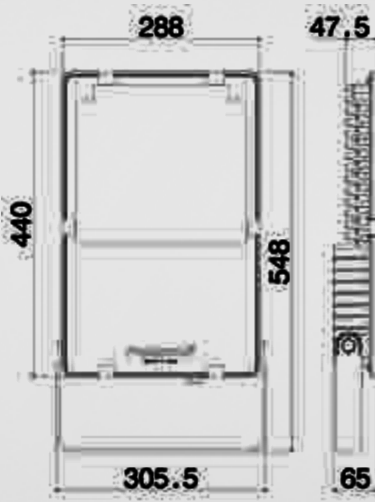


Pole-top spigot (adaptor)

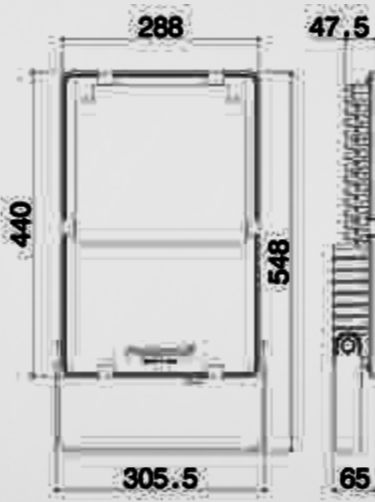
Technical specifications

Conformity to standards	Directive 2014/35/EU EN 60598-1: 2015 EN 60598-2-1:1997 EN 60598-2-5: 2015 EN 60598-2-22: 2014 EN 62471: 2008 Directive 2014/30/EU EN 62493: 2015 Directive 2011/65/EU ENEC in progress for approval	LED Colour Temperature	4000K (other temperatures on request)
		CRI	≥ 80
		Insulation class	II
		Rated voltage	200-240 V 50-60 Hz
Body material	Aluminium alloy EN 44300	Protection against surge discharges	8 kV common mode 6 kV differential mode EN 61000
Surface treatment	Passivation with fluoro-zirconium	Power factor	≥ 0,95
Diffuser material	Extraclear tempered glass	Unified Glare Rating (UGR)	≤ 22
Painting	Hot polymerized non-toxic polyester	Max cable section	1,5 mm ²
Colour	RAL 7011	Entry cable diameter	7-13 mm
Weight	6,5 kg	Estimated device lifetime	L80 B20 @ 100.000h Tq=-30 °C - +40 °C
Device tilting	-135 ° - +135 °	Storage temperature	-40 °C - +70 °C
LED device efficiency	≥ 110lm/W	Operating temperature	-30 °C - +40 °C (on request up to +55 °C or other special configurations)

Tigua Flood
LED Floodlight



Tigua Flood
LED Floodlight



Extra wide beam - Symmetrical light distribution

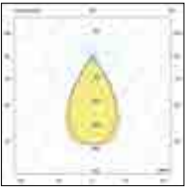


Table with 4 columns: Power (W), Luminous flux (lm) Tj= 25 °C, Part numbers, Power Supply. Rows include 67W, 99W, 132W, 164W, 196W with corresponding part numbers and an Electronic power supply.

Narrow beam - Symmetrical light distribution

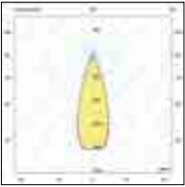


Table with 4 columns: Power (W), Luminous flux (lm) Tj= 25 °C, Part numbers, Power Supply. Rows include 67W, 99W, 132W, 164W, 196W with corresponding part numbers and an Electronic power supply.

Extra wide beam - Asymmetrical light distribution

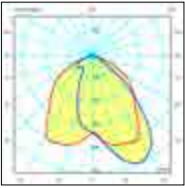
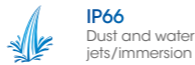


Table with 4 columns: Power (W), Luminous flux (lm) Tj= 25 °C, Part numbers, Power Supply. Rows include 67W, 99W, 132W, 164W, 196W with corresponding part numbers and an Electronic power supply.



CLASSIFICATION
Insulation Class II

LED
4000K
CRI>80

CONSTRUCTION
Body:EN46100 aluminium alloy
Diffuser:Extra clear tempered glass

Anti-scratch passivation treatment

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

Narrow beam - Asymmetrical light distribution

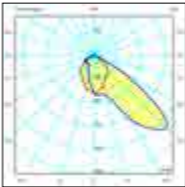


Table with 4 columns: Power (W), Luminous flux (lm) Tj= 25 °C, Part numbers, Power Supply. Rows include 67W, 99W, 132W, 164W, 196W with corresponding part numbers and an Electronic power supply.

Extra wide - Roadway light distribution

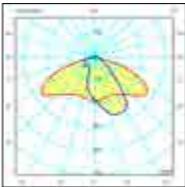


Table with 4 columns: Power (W), Luminous flux (lm) Tj= 25 °C, Part numbers, Power Supply. Rows include 67W, 99W, 132W, 164W, 196W with corresponding part numbers and an Electronic power supply.



CLASSIFICATION
Insulation Class II

LED
4000K
CRI>80

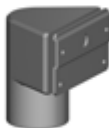
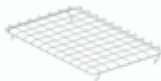


CONSTRUCTION
Body:EN46100 aluminium alloy
Diffuser:Extra clear tempered glass

Anti-scratch passivation treatment


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

Tigua Flood

LED Floodlight - ACCESSORIES

	Universal spigot adaptor for pole-head fixing for Ø 60mm and Ø 76 mm	<table><tr><th>Manufacturing Material</th><th>Part number</th></tr><tr><td>Powder coated electrogalvanized steel</td><td>811908</td></tr></table>	Manufacturing Material	Part number	Powder coated electrogalvanized steel	811908
Manufacturing Material	Part number					
Powder coated electrogalvanized steel	811908					
	Protective wire guard	<table><tr><th>Manufacturing Material</th><th>Part number</th></tr><tr><td>Electrogalvanized steel</td><td>811911</td></tr></table>	Manufacturing Material	Part number	Electrogalvanized steel	811911
Manufacturing Material	Part number					
Electrogalvanized steel	811911					
	Support for wall mounting with 750 mm projection	<table><tr><th>Manufacturing Material</th><th>Part number</th></tr><tr><td>Powder coated electrogalvanized steel</td><td>811914</td></tr></table>	Manufacturing Material	Part number	Powder coated electrogalvanized steel	811914
Manufacturing Material	Part number					
Powder coated electrogalvanized steel	811914					
	Kit composed of collar and plate for fixing on Ø 60 mm and Ø 80 mm pole	<table><tr><th>Manufacturing Material</th><th>Part number</th></tr><tr><td>Electrogalvanized steel</td><td>811912</td></tr></table>	Manufacturing Material	Part number	Electrogalvanized steel	811912
Manufacturing Material	Part number					
Electrogalvanized steel	811912					

 **CORROSION C4**
as for Per ISO9223

 **IP66**
Dust and water jets/immersion

 **IK08**
High impact resistance

 **ENERGY SAVING**

CLASSIFICATION
Insulation Class II

LED
4000K
CRI>80

CONSTRUCTION
Body:EN46100 aluminium alloy
Diffuser:Extra clear tempered glass

Anti-scratch passivation treatment

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

Tigua Flood

LED Floodlight



Watertight linear lighting fixtures
made of AISI 304 Stainless Steel

Non Welded joints

Guaranteed resistance in time
even in aggressive atmospheres

IP66 Special Reinforced gasket

Ensures protection against natural
water jets (waves, storms) or used for
washing (food & health sectors)

Choice of Different Diffusers

Satin finished Glass, Extra clear
Glass & Polycarbonate

Double Optic Solution

The differentiation of optics
supplies a tailored solution for
different installations

Diffuser without frame

Guaranteed IP66 Protection
through improved coupling
between the body and diffuser

Key features



Non corrosive

AISI 304 Stainless Steel construction
makes it suitable for installation in
coastal atmospheres



Energy saving

More than 35-40% more energy-
saving compared to the same
luminous flux of a fluorescent lamp



50.000 Hours of light

Thanks to the new LED technology



Non-deformable

The non-deformable structure
makes it suitable to be installed
even when vibrations are present



Dust and water
jets/immersion



High level of
impact resistance



LDT files & lighting
schemes



as per ISO 9223



FLICKER
FREE



RISK
GROUP
ZERO



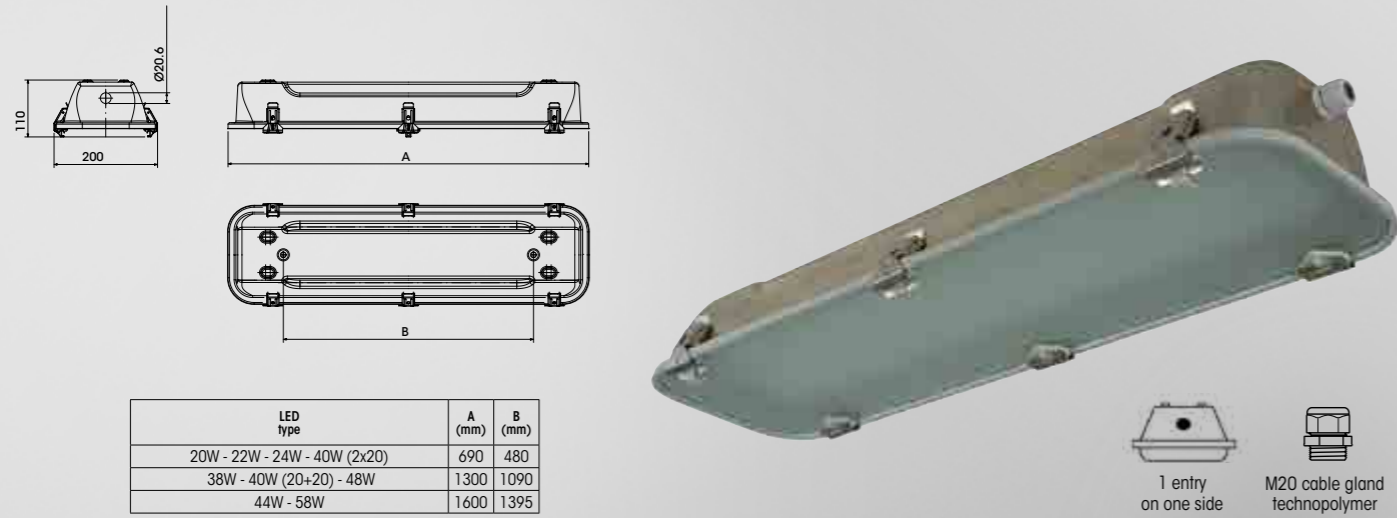
ENERGY
SAVING

Technical specifications

Conformity to standards	Directive 2014/35/EU EN 60598-1:2015 EN 60598-2-1:1997 EN 60598-2-22:2014 EN 62471:2008 Directive 2014/30/EU EN 62493:2015 Directive 2011/65/EU	CRI	≥ 80
		Insulation class	I
Body material	Stainless steel AISI 304 Zinc and powder coated steel	Rated voltage	230V 50-60Hz
		Protection against surge discharges	2 kV EN 61000
Diffuser material	Satin finished Glass, Extra Clear Glass & Polycarbonate	Power factor	≥ 0,9
Painting	Non-toxic polyester resistant to weather conditions and UV rays	Max cable section	2,5 mm ²
Colour	RAL 9003 (zinc and powder coated steel version)	Entry cable diameter	7-14 mm
LED Colour Temperature	4000K	Estimated device lifetime	L80 B20 @50.000h Tq=25°C
		Storage temperature	-40 °C - +70 °C
		Operating temperature	-25°C - +40°C (Special solutions available on request for extremely cold temperature storage)

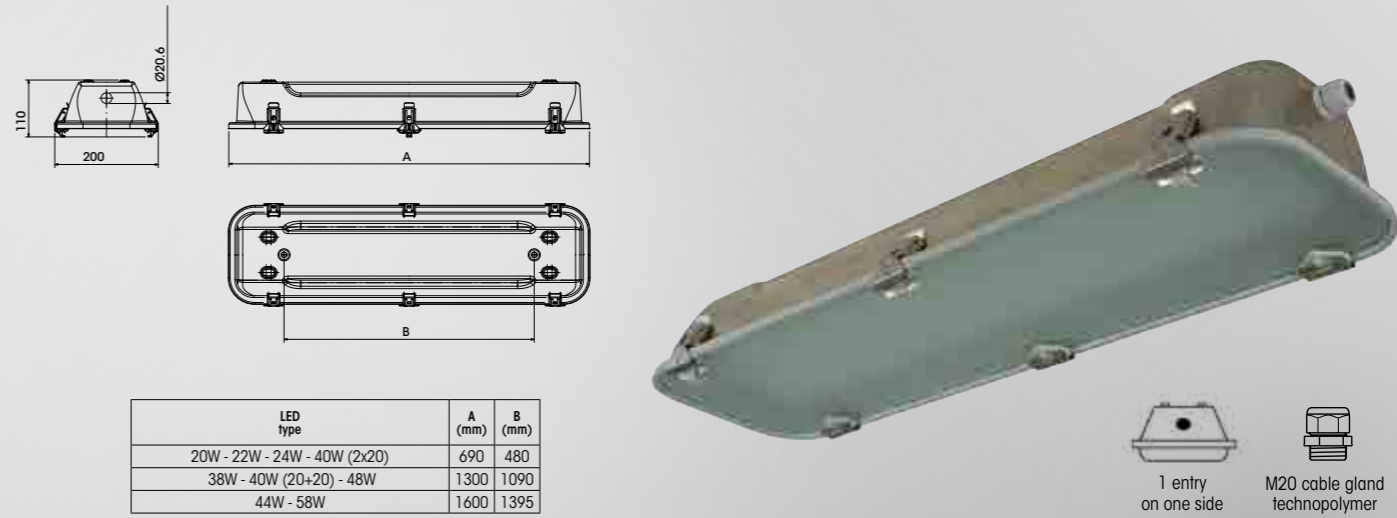
Rino LED

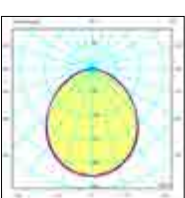
LED Linear Stainless Steel Lighting for Ceiling / Wall mounting



Rino LED

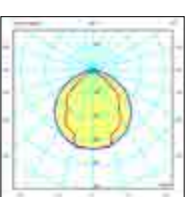
LED Linear Stainless Steel Lighting for Ceiling / Wall mounting





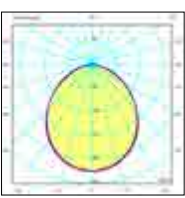
Wide beam - Satin Finished Glass Diffuser

Power (W)	Dimensions (mm)	Luminous flux (lm) Tj= 25 °C	Part numbers	Power Supply
22W	690X200X100 mm	3170lm	822142	Electronic
48W	1300X200X100 mm	5900lm	822242	
58W	1600X200X100 mm	8000lm	822342	



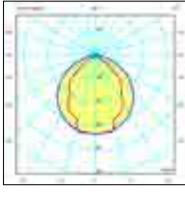
Narrow beam - Extra Clear Glass Diffuser

Power (W)	Dimensions (mm)	Luminous flux (lm) Tj= 25 °C	Part numbers	Power Supply
48W	1300X200X100 mm	5900lm	820242	Electronic
58W	1600X200X100 mm	8000lm	820342	




Wide beam - Polycarbonate Diffuser

Power (W)	Dimensions (mm)	Luminous flux (lm) Tj= 25 °C	Part numbers	Power Supply
22W	690X200X100 mm	3170lm	828142	Electronic
48W	1300X200X100 mm	5900lm	828242	




Narrow beam - Polycarbonate Diffuser


Power (W)	Dimensions (mm)	Luminous flux (lm) Tj= 25 °C	Part numbers	Power Supply
48W	1300X200X100 mm	5900lm	825242	Electronic



CORROSION C4
as for Per ISO9223



IP66
Dust and water jets/immersion



IK09
High impact resistance



ENERGY SAVING

CLASSIFICATION
Insulation Class I

LED
4000K
CRI>80

CONSTRUCTION
Body:Stainless steel AISI304
Diffuser:Satin finished Glass, Extra Clear Glass & Polycarbonate


Anti-scratch passivation treatment

Equipment included:
2 x 2P+E terminal blocks for in and out from the power supply. No.2 cable glands and No.1 screwcap in nickeled brass
Note : the declared values may be subject to a tolerance of +/- 7%

Rino LED

LED Linear Stainless Steel Lighting for Ceiling/Wall mounting

ACCESSORIES




Pair of hooks for pendant mounting of steel lighting fixtures

Manufacturing Material	Part number
Stainless steel AISI 304	820001




Pair of swivelling supports for ceiling or wall mounting of steel lighting fixtures

Manufacturing Material	Characteristics	Part number
Stainless steel AISI 304	Rotating angle +/- 75°	820000




Pair of collars for mounting on tube of steel lighting fixtures


Manufacturing Material	Characteristics	Part number
Stainless Steel AISI 304	Tube diameter 60 mm	820006



CORROSION C4
as for Per ISO9223



IP66
Dust and water jets/immersion



IK09
High impact resistance



ENERGY SAVING

CLASSIFICATION
Insulation Class I

LED
4000K
CRI>80

CONSTRUCTION
Body:Stainless steel AISI304
Diffuser:Satin finished Glass, Extra Clear Glass & Polycarbonate

Anti-scratch passivation treatment

Equipment included:
2 x 2P+E terminal blocks for in and out from the power supply. No.2 cable glands and No.1 screwcap in nickeled brass
Note : the declared values may be subject to a tolerance of +/- 7%

MITO^{LED}-EX

MITO ATEX - HIGH BAY



reddot award 2018
winner

High Bay fixtures for installation in areas at risk
of explosive atmospheres as defined in ATEX
Directive 2014/34/EU

Die-cast aluminium body prevents corrosion
and the 4mm extra clear tempered glass
diffuser ensures resistance to chemicals



Technical specifications



Ex

ATEX products are required in places such as carpentries, bakeries, garages, thermal plants and pharmaceutical industries.



IMQ 07 ATEXQ 001

The production quality system is certified to guarantee the safety of the products installed in potentially explosive atmosphere.

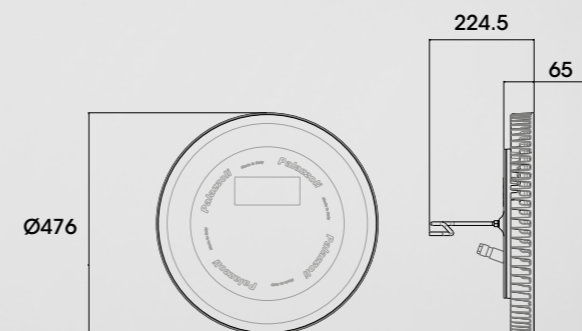
	GAS			DUST		
ZONE	0	1	2	20	21	22
USABLE						X

Technical specifications

Conformity to standards	Directive 2014/35/EU EN 60598-1: 2015 EN 60598-2-1:1997 EN 60598-2-5: 2015 EN 60598-2-22: 2014 EN 62471: 2008 Directive 2014/30/EU EN 62493: 2015 Directive 2014/34/EU EN 60079-0: 2012 + A11:2013 EN 60079-31:2014 Directive 2011/65/EU ENEC in progress for approval	LED device efficiency	≥ 106 lm/W
		LED Colour Temperature	4000 K (other temperatures on request)
ATEX execution	II 3D Ex tc IIIC T100 °C Dc	CRI	≥ 80
		Insulation class	I
Body material	EN46100 Aluminium alloy	Rated voltage	Insulation class I (II on request)
Surface treatment	Passivation with fluoro-zirconium	Protection against surge discharges	10 kV common mode 6 kV differential mode EN 61000 (10 kV on request)
Diffuser material	Extraclear tempered glass	Unified Glare Rating (UGR)	≤ 22
Painting	Hot polymerized non-toxic polyester	Power factor	≥ 0,95
Colour	RAL 9005	Max cable section	1,5 mm ²
Corrosion class	C3 as per ISO9223	Entry cable diameter	7-13 mm
Weight	9,5 Kg max	Entry cable	M20 ATEX cable gland
		Estimated device lifetime	L80 B20 @110.000h Tq=-30 °C - +40 °C
		Storage temperature	-40 °C - +70 °C
		Operating temperature	-30 °C - +40 °C (on request up to +55 °C or other special configurations)

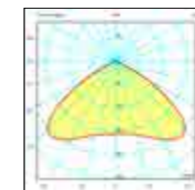
Mito LED - Atex

LED High Bay Lighting - FOR ATEX ZONE 22



Extra wide beam - symmetrical light distribution

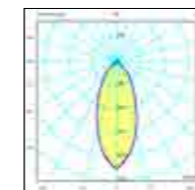
Glass Diffuser



Power (W)	Luminous flux (lm) Tj= 25 °C	Part numbers	Power Supply
99W	13230lm	810090EX	1-10V Dimmable Electronic
133W	17640lm	810020EX	
168W	22050lm	810050EX	
199W	26460lm	810080EX	

Narrow beam - symmetrical light distribution

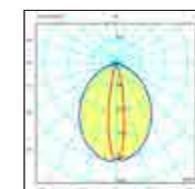
Glass Diffuser
Typical height of installation above 9m



Power (W)	Luminous flux (lm) Tj= 25 °C	Part numbers	Power Supply
99W	13230lm	810091EX	1-10V Dimmable Electronic
133W	17640lm	810021EX	
168W	22050lm	810051EX	
199W	26460lm	810081EX	

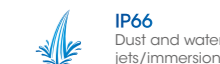
Elliptical beam - elliptical light distribution

Glass Diffuser



Power (W)	Luminous flux (lm) Tj= 25 °C	Part numbers	Power Supply
99W	13230lm	810092EX	1-10V Dimmable Electronic
133W	17640lm	810022EX	
168W	22050lm	810052EX	
199W	26460lm	810082EX	

Conformity to ATEX standards	ATEX execution	Protection rating (IP as per IEC/EN 60529)	Colour	Entry cable
Directive 2014/34/UE EN 60079-0: 2012 + A11:2013 EN 60079-31:2014 Directive 2011/65/UE	II 3D Ex tc IIIC T100 °C Dc	IP66	RAL 9005	M20 ATEX cable gland



CLASSIFICATION
Insulation Class I (II on request)

LED
4000K
CRI>80

CONSTRUCTION
Body:EN46100 aluminium alloy
Diffuser:Extra clear tempered glass

Anti-scratch passivation treatment

Equipment included:
Support for rapid pendant suspension
Electrical supply through rapid connector
Note : the luminous flux may be subject to a tolerance of +/- 7%

RINO^{Led}-EX

RINO ATEX

STAINLESS STEEL

Watertight Linear lighting fixtures for installation in areas at risk of explosive atmospheres as defined in ATEX Directive 2014/34/EU

Equipped with LED strips, installed on an ultra bright aluminium reflector and the diffuser in tampered glass without the metallic frame



IP66
Dust and water jets/immersion



IK09
High level of impact resistance



TECHNICAL SUPPORT
LDT files & lighting schemes



CORROSION C4
as per ISO 9223



FLICKER FREE



RISK GROUP ZERO



ENERGY SAVING

Technical specifications



Ex
ATEX products are required in places such as carpentries, bakeries, garages, thermal plants and pharmaceutical industries.



IMQ 07 ATEXQ 001
The production quality system is certified to guarantee the safety of the products installed in potentially explosive atmosphere.

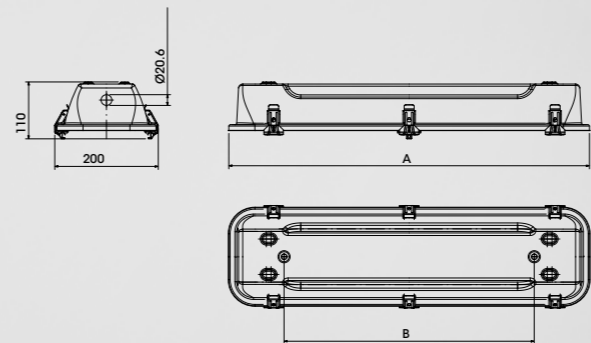
	GAS			DUST		
ZONE	0	1	2	20	21	22
USABLE			X			X

Technical specifications

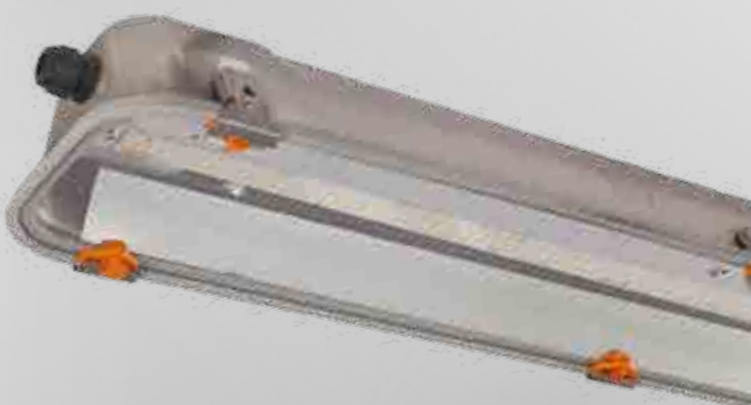
Conformity to standards	Directive 2014/35/EU EN 60598-1:2015 EN 60598-2-1:1997 EN 62471:2008 EN 60598-2-22:2014 Directive 2014/30/EU EN 62493:2015 Directive 2011/65/EU Directive 2014/34/EU EN 60079-0:2012+A11:2013 EN 60079-15:2010 EN 60079-31:2014	Painting	Non-toxic polyester resistant to weather conditions and UV rays
ATEX execution	II 3G 3D Ex nR IIC T6 Gc Ex tc IIIC T 70 °C Dc	Colour	RAL 9016 (zincd and powder coated steel version)
Body material	Stainless steel AISI 304 Zincd and powder coated steel	LED Colour Temperature	4000 K
Diffuser material	Tempered glass	CRI	≥ 80
		Insulation class	I
		Rated voltage	230V 50-60Hz
		Power factor	≥ 0,9
		Max cable section	2,5 mm ²
		Estimated device lifetime	L80 B10 @50.000h Tq=25°C
		Storage temperature	-40 °C - +70 °C
		Operating temperature	-25°C - +40°C

Rino LED - ATEX

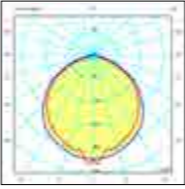
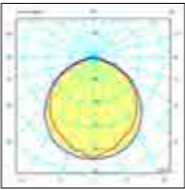
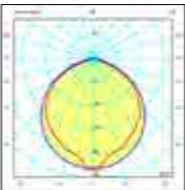
LED Linear Lighting for Ceiling / Wall mounting
Suitable for ZONE 2 (GAS) and 22 (DUST)



LED type	A (mm)	B (mm)
20W - 22W - 24W - 40W (2x20)	690	480
38W - 40W (20+20) - 48W	1300	1090
44W - 58W	1600	1395

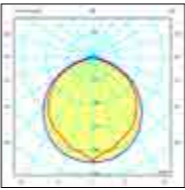


Extra Wide beam
Glass Diffuser
Stainless Steel

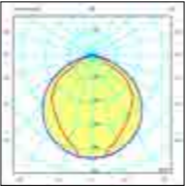


Power (W)	Dimensions (mm)	Luminous flux (lm) Tj= 25 °C	Part numbers	Power Supply
24W	690X200X100 mm	3300lm	822142EX	Electronic
38W	1300X200X100 mm	5600lm	822242EX	
44W	1600X200X100 mm	6500lm	822342EX	

Other options available in
Powder coated Steel



Also available
Linear Fluorescent lighting fixtures



CORROSION C4
as for Per ISO9223

IP66
Dust and water jets/immersion

IK09
High impact resistance

ENERGY SAVING

CLASSIFICATION
Insulation Class I

LED
4000K
CRI>80

CONSTRUCTION
Body:Stainless steel AISI304
Diffuser:Tempered glass.

Anti-scratch passivation treatment

Equipment included:
Pair of hooks in AISI 304 steel for pendant installation, code 820001.
Note: the declared values may be subject to a tolerance of +/- 7%

ROSS
LED ROUND/OVAL
BULKHEADS

Round and Oval Bulkheads
for Ceiling & Wall Mounting

Suitable for indoor
and outdoor applications



IP66
Dust and water jets/immersion



IK10
High level of impact resistance



TECHNICAL SUPPORT
LDT files & lighting schemes



CORROSION C4
as per ISO 9223



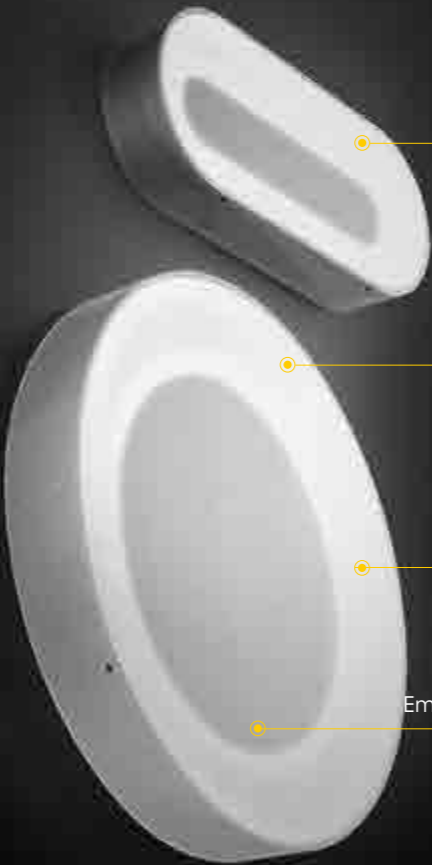
FLICKER FREE



RISK GROUP ZERO



ENERGY SAVING



Choice of Colours
Available in five different colours

Versatile solutions
Versions available with a day/night sensor,
motion sensor and emergency function

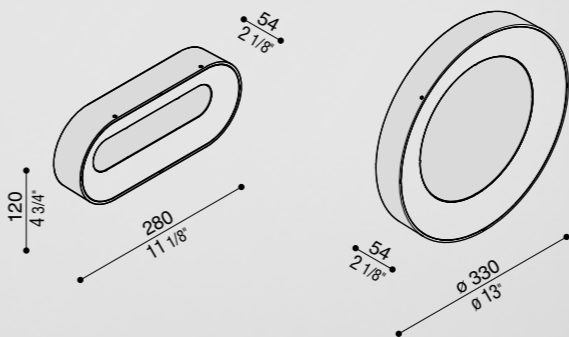
Wide range of applications
Also suitable for outdoor use

Rapid Installation
Emergency available on request

Technical specifications

LED Colour Temperature	4000K (3000K or 2700K available on request)	Diffuser material	Polycarbonate
Integrated Ballast	220-240V		

Ross
LED Round / Oval Bulkheads



Ross 280



LED	Power (W)	Colour	Part Numbers	Power Supply
LED 1500lm	10W	White	LL124000NLW	Electronic
		Black	LL124001NLW	
		White	LL124025NLW	Emergency
		Black	LL124026NLW	

Ross 330



LED	Power (W)	Colour	Part Numbers	Power Supply
LED 2500lm	20W	White	LL124010NLW	Electronic
		Black	LL124011NLW	
		White	LL124020NLW	Emergency
		Black	LL124021NLW	

Available on request:
Sensor (Motion, Day night)
Body colour (Grey high tech, Grey anthracite, Corten)
Colour temperatures (3000K, 2700K)



Customisation Option using Laser Cutting

Examples of a 3 hours Emergency version customised
through engraving by laser cutting

CORROSION C4
as for Per ISO9223

IP66
Dust and water jets/immersion

IK10
High impact resistance

ENERGY SAVING

CLASSIFICATION
Insulation Class I (II on request)

LED
4000K
CRI>80

CONSTRUCTION
Body:Polycarbonate
Diffuser:Polycarbonate/Polyglass

STRAL- ARCHITECTURAL

LED OUTDOOR LIGHTING

IN AISI 316L STAINLESS STEEL

Marine grade Stainless Steel AISI 316L
Lighting fixtures

Stainless Steel Lighting for architectural
& commercial installations



Range Covers



High level of
impact resistance



LDT files & lighting
schemes



as per ISO 9223



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RISK
GROUP
ZERO



ENERGY
SAVING



Non-Corrosive

Optimal corrosion resistance
to aggressive agents

Powder Coating

Powder coating treatment of the fixtures in
different colours are available on request

Electropolished Finish

Superior functional characteristics, making the
surface smoother, brighter and very easy to clean

Technical specifications

EU Regulation	874/2012	Insulation Class	II / III
Body	AISI 316L Stainless Steel	Energy Class	A, A+, A++

STRAL - ARCHITECTURAL

LED Outdoor Lighting in AISI 316L Stainless Steel



GAME 180



OLYMPIAD110

In-ground recessed lighting fitting available with circular or square
frame in AISI 316L stainless steel, frame's Ø 110 mm. Power from 5W
to 35W. Available optics: wall washer, 21°, 45° and 65°.



OLYMPIAD180

In-ground recessed lighting fitting available with circular or square
frame in AISI 316L stainless steel, frame's Ø 173 mm. Power from 12W
to 18W. Available optics: wall washer, 21°, 45° and 65°.



OLYMPIAD240

In-ground recessed lighting fitting available with circular or square
frame in AISI 316L stainless steel, frame's Ø 235 mm. Power 24W.
Available optics: wall washer, 21°, 45° and 65°.



OLYMPIAD300

In-ground recessed lighting fitting available with circular or square
frame in AISI 316L stainless steel, frame's Ø 295 mm. Power 28W.
Available optics: wall washer, 21°, 45° and 65°.



GAME180

Inground semi-recessed LED fitting in AISI 316L stainless steel with one
window for the lighting emission from 180°. Ø 149mm. Power 4W.



CLASSIFICATION
Insulation Class I (II on request)

LED
4000K (other temperatures on request)
CRI>80

CONSTRUCTION
Body:AISI 316L stainless steel
Diffuser:Extra clear tempered glass

STRAL - ARCHITECTURAL
LED Outdoor Lighting in AISI 316L Stainless Steel



CAPRI 100



CAPRI100

Wall mounted mono-emission and bi-emission LED lighting fitting in AISI 316L stainless steel. Power 5W and 2x5W. Available optics: street, asymmetrical, 21°, 45° and 65°.



OTTAGONO

Spot LED lighting fitting with square frame 76x76mm or 100x100mm in AISI 316L stainless steel. Maximum power 3W. Standard optics from 20°, 30° and 45°. Filters for scenographic effects are both available.



STRIKER50/70

Projector on spike available with LED or GU10 lighting source. Ø from 50mm or 70mm, body in AISI 316L stainless steel. Power from 3W up to 35W. Available optics: street, asymmetrical, 21°, 45° and 65°.

ACCESSORIES



GAME 180 drain casing for flush mounting.



Drain casing for flush or raised mounting for OLYMPIAD range.

OLYMPIAD110 flush and raised version
OLYMPIAD180/240/300 flush and raised version
OLYMPIAD180/240/300 raised square version



CORROSION C5
as for Per ISO9223



IP65 IP66 IP67
Dust and water jets/immersion



IK08 IK09 IK10
High impact resistance



ENERGY SAVING

CLASSIFICATION

Insulation Class I (II on request)

LED

4000K (other temperatures on request)
CRI>80

CONSTRUCTION

Body:AISI 316L stainless steel
Diffuser:Extra clear tempered glass

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