



Atex

The company has established experience in extreme environments where flammable materials, oxidizing chemicals, salt solutions, acids and motor and vegetable oils are treated. Palazzoli is the absolute market leader of ATEX products, explosion-proof equipment intended for high-risk environments.

Power plants, chemical industries, oil platforms, military bases and refineries are just a few areas where lighting fixtures must prevent any spark propagation and ensure safe and reliable operation over time.



Explosive environments due to the presence of GAS

Mines
and tunnel excavations

Petrochemical
and pharmaceutical plants

Painting plants



Gruppo I M2



RINO-EX page 189

Zone 1-2



TIGUA-EX page 177

Zone 1-2



RINO-EX page 193

Zone 1-2



TIGUA-EX page 177

Zone 1-2



XTIGUA-EX page 180

Zone 1-2



TIGUA-EX page 203

Zone 1-2



XTIGUA-EX page 206

Zone 1-2



RINO-EX page 193

Zone 2



META150-EX page 209



Explosive environments due to the presence of DUST

Metalworking

Woodworking

Food powders







Floodlights

Petrochemical and pharmaceutical plants
 Painting plants
 Metalworking
 Woodworking
 Food powders



TIGUA-EX
 zone 1, 2, 21, 22

from 5808 lm to 16560 lm
 Page 176



XTIGUA-EX
 zone 1, 2, 21, 22

from 17365 lm to 33120 lm
 Page 179



TIGUA-EX
 zone 2, 21, 22

from 6312 lm to 18000 lm
 Page 182



XTIGUA-EX
 zone 2, 21, 22

from 19630 lm to 36864 lm
 Page 184

TIGUA-EX | Zone 1, 2, 21, 22 | floodlight



WARRANTY
UP TO 7 YEARS



DIRECTIVES

2014/30/EU (EMC)
2014/34/EU (ATEX)
2011/65/EU (RoHS)
2012/19/EU (RAEE)

PRODUCT STANDARDS

EN 55015
EN 60079-0
EN 60079-18
EN 60079-31
EN 60079-7
EN 60598-1
EN 60598-2-1
EN 60598-2-5
EN 60598-2-22
EN 61000-3-2
EN 61000-3-3
EN 61547
EN 62311
EN 62493
EN 62471
IEC TR 62778
EN 63000

ATEX Gas execution	II 2G - Ex eb mb IIC T6/T5/T4 Gb
ATEX Dust execution	II 2D - Ex tb IIIC T 75/T 85/T 95 °C Db
Body material	Aluminium alloy with low copper content (EN 44300)
Surface treatment	Fluorozirconate passivation
Surface finish	Hot-polymerized non-toxic polyester paint
Colour	Black RAL 9005
Diffuser material	Extra-clear tempered glass
Protection rating	IP66 as per IEC 60079-0 and 60598-1
Impact resistance	7J (body) 4J (glass)
Corrosion class	C5-M / C4-H (ISO 9223)
Mounting system	U-bracket with adjustment from -135° to +135°
Ambient operating temperature	-35 °C - +60 °C -35 °C - +70 °C (very high temperature) (-40 °C on request)
Ambient storage temperature	-40 °C - +70 °C
Actual efficacy of the device	Up to 131 lm/W
Colour temperature	4000 K
Optics features	UV-stabilized polycarbonate lens sealed on the LED module with silicon resin
Colour rendering index values	CRI≥80 as per EN 62717
Colour consistency	MacAdam 4-step
Photobiological risk	RG0-Exempt Group (EN 62471)
Residual flicker	<4%
Luminous flux maintenance	L90 B10 @ 100,000 h Tq=+70 °C (very high temperature) L90 B10 @ 110,000 h Tq=+40 °C L90 B10 @ 230,000 h Tq=+25 °C
Insulation class	I
Supply voltage	110-277 Vac / 110-250 Vdc (<95W) 160-277 Vac / 160-250 Vdc (>95W) 0/50/60 Hz
Surge protection	8 kV common mode and 6 kV differential mode (EN 61000-4-5)
Power factor	>0,95
Type of power supply	Spring terminals and cable glands M20 Spring terminals and cable glands M25 (very high temperature)
Max. conductor cross-section	2,5 mm² 1÷4 mm² (very high temperature)
Inlet cable diameter	10÷14 mm 12÷18 mm (very high temperature)

Versions with colour temperatures from 3000 K to 6500 K and ambient temperatures up to -40 °C can also be produced.

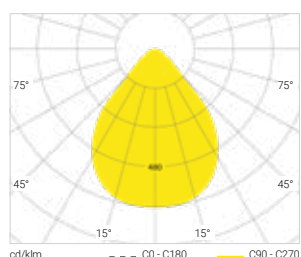
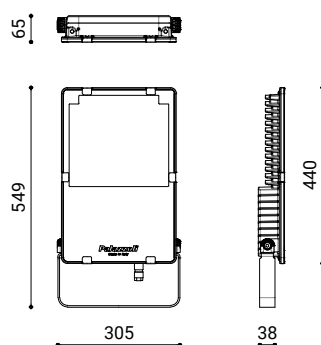
TAISBOX-EX series junction boxes certified for zones 1, 2, 21, 22 are available on request, complete with cable glands and clamps for entering cables with larger diameters and/or for entering/exiting solutions.

TIGUA-EX | Zone 1, 2, 21, 22 | floodlight

Class
I

IP66

IK08



Symmetrical 81° extra wide beam optics

Included: wall-mounting bracket.

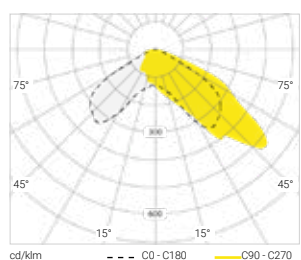
No. 1 M20 cable gland in technopolymer.

The stated flux and power values may be subject to a +/- 7% tolerance.

II 2G - 2D



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
12	47	6980	5808	Glass	124	+60	DALI	6,50	817021EX
12	73	9950	8280	Glass	113	+55	DALI	6,50	817022EX
24	89	13950	11615	Glass	131	+45	DALI	7,10	817023EX
24	141	19850	16560	Glass	117	+40	DALI	7,10	817024EX



Asymmetrical 50° extra wide beam optics

Included: wall-mounting bracket.

No. 1 M20 cable gland in technopolymer.

The stated flux and power values may be subject to a +/- 7% tolerance.

II 2G - 2D



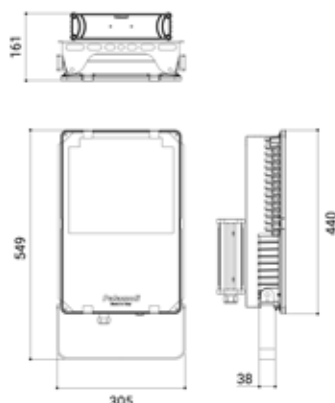
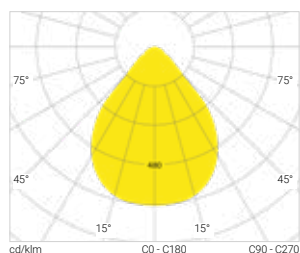
LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
12	47	6980	5808	Glass	124	+60	DALI	6,50	817221EX
12	73	9950	8280	Glass	113	+55	DALI	6,50	817222EX
24	89	13950	11615	Glass	131	+45	DALI	7,10	817223EX
24	141	19850	16560	Glass	117	+40	DALI	7,10	817224EX

TIGUA-EX | Zone 1, 2, 21, 22 | floodlight

Classe
I

IP66

IK08

2 entries on
one endTechnopolymer
cable gland M25

Symmetrical 81° extra wide beam optics

Included: wall-mounting bracket.

Power supply in an external aluminium alloy box, pre-wired with the projector and prepared for an enter/exit solution with No. 1 M25 cable gland and No. 1 M25 cap in technopolymer.

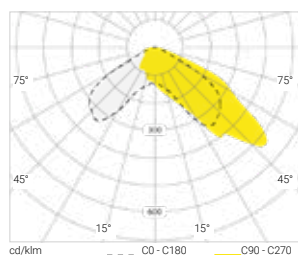
The stated flux and power values may be subject to a +/- 7% tolerance.

II 2G - 2D

Very high temperature



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
12	47	6980	5808	Glass	124	+70	DALI	9,50	817041EX
12	73	9950	8280	Glass	113	+70	DALI	9,50	817042EX
24	89	13950	11615	Glass	131	+70	DALI	10,10	817043EX
24	141	19850	16560	Glass	117	+60	DALI	10,10	817044EX



Asymmetrical 50° extra wide beam optics

Included: wall-mounting bracket.

Power supply in an external aluminium alloy box, pre-wired with the projector and prepared for an enter/exit solution with No. 1 M25 cable gland and No. 1 M25 cap in technopolymer.

The stated flux and power values may be subject to a +/- 7% tolerance.

II 2G - 2D

Very high temperature



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
12	47	6980	5808	Glass	124	+70	DALI	9,50	817241EX
12	73	9950	8280	Glass	113	+70	DALI	9,50	817242EX
24	89	13950	11615	Glass	131	+70	DALI	10,10	817243EX
24	141	19850	16560	Glass	117	+60	DALI	10,10	817244EX

Accessories TIGUA-EX floodlight on page 101

XTIGUA-EX | Zone 1, 2, 21, 22 | floodlight



WARRANTY
UP TO 7 YEARS



DIRECTIVES

2014/30/EU (EMC)
2014/34/EU (ATEX)
2011/65/EU (RoHS)
2012/19/EU (RAEE)

PRODUCT STANDARDS

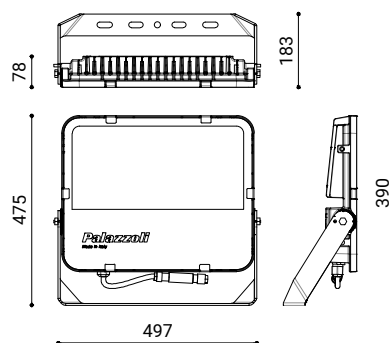
EN 55015
EN 60079-0
EN 60079-18
EN 60079-31
EN 60079-7
EN 60598-1
EN 60598-2-1
EN 60598-2-5
EN 60598-2-22
EN 61000-3-2
EN 61000-3-3
EN 61547
EN 62311
EN 62493
EN 62471
IEC TR 62778
EN 63000

ATEX Gas execution	II 2G - Ex eb mb IIC T5 Gb
ATEX Dust execution	II 2D - Ex tb IIIC T 85 °C Db
Body material	Aluminium alloy with low copper content (EN 44300)
Surface treatment	Fluorozirconate passivation
Surface finish	Hot-polymerized non-toxic polyester paint
Colour	Black RAL 9005
Diffuser material	Extra-clear tempered glass
Protection rating	IP66 as per IEC 60079-0 and 60598-1
Impact resistance	7J (body) 4J (glass)
Corrosion class	C5-M / C4-H (ISO 9223)
Mounting system	U-bracket with adjustment from -110° to +110°
Ambient operating temperature	-35 °C - +45 °C -35 °C - +70 °C (very high temperature) (-40 °C on request)
Ambient storage temperature	-40 °C - +70 °C
Actual efficacy of the device	Up to 128 lm/W
Colour temperature	4000 K
Optics features	UV-stabilized polycarbonate lens sealed on the LED module with silicon resin
Colour rendering index values	CRI≥80 as per EN 62717
Colour consistency	MacAdam 4-step
Photobiological risk	RG0-Exempt Group (EN 62471)
Residual flicker	<4%
Luminous flux maintenance	L90 B10 @ 100,000 h Tq=+70 °C (very high temperature) L90 B10 @ 110,000 h Tq=+40 °C L90 B10 @ 230,000 h Tq=+25 °C
Insulation class	I
Supply voltage	160-277 Vac / 160-250 Vdc 0/50/60 Hz
Surge protection	8 kV common mode and 6 kV differential mode (EN 61000-4-5)
Power factor	>0,95
Type of power supply	Spring terminals and cable glands M20 Spring terminals and cable glands M25 (very high temperature)
Max. conductor cross-section	2,5 mm² 1÷4 mm² (very high temperature)
Inlet cable diameter	10÷14 mm 12÷18 mm (very high temperature)

Versions with colour temperatures from 3000 K to 6500 K and ambient temperatures up to -40 °C can also be produced.

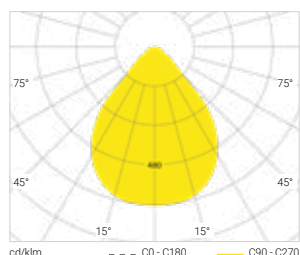
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XTIGUA-EX | Zone 1, 2, 21, 22 | floodlight

Class
I

IP66

IK08



Symmetrical 81° extra wide beam optics

Included: wall-mounting bracket.

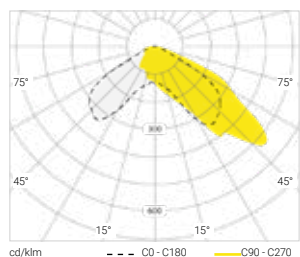
No. 1 M20 cable gland in technopolymer.

The stated flux and power values may be subject to a +/- 7% tolerance.

II 2G - 2D

+ 45°C
- 35°C

LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
36	139	20900	17365	Glass	125	+45	DALI	9,00	818021EX
36	214	29800	24840	Glass	116	+40	DALI	9,00	818022EX
48	181	27800	23115	Glass	128	+35	DALI	9,50	818023EX
48	285	39800	33120	Glass	116	+30	DALI	9,50	818024EX



Asymmetrical 50° extra wide beam optics

Included: wall-mounting bracket.

No. 1 M20 cable gland in technopolymer.

The stated flux and power values may be subject to a +/- 7% tolerance.

II 2G - 2D

+ 45°C
- 35°C

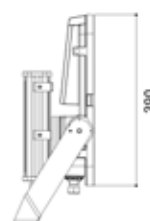
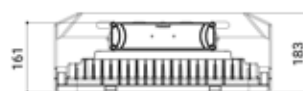
LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
36	139	20900	17365	Glass	125	+45	DALI	9,00	818221EX
36	214	29800	24840	Glass	116	+40	DALI	9,00	818222EX
48	181	27800	23115	Glass	128	+35	DALI	9,50	818223EX
48	285	39800	33120	Glass	116	+30	DALI	9,50	818224EX

XTIGUA-EX | Zona 1, 2, 21, 22 | floodlight

Classe
I

IP66

IK08

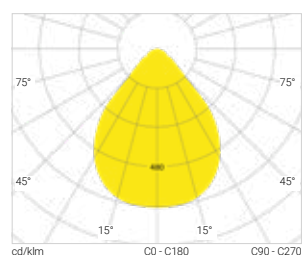
2 entries on
one endTechnopolymer
cable gland M25

Symmetrical 81° extra wide beam optics

Included: wall-mounting bracket.

Power supply in an external aluminium alloy box, pre-wired with the projector and prepared for an enter/exit solution with No. 1 M25 cable gland and No. 1 M25 cap in technopolymer.

The stated flux and power values may be subject to a +/- 7% tolerance.

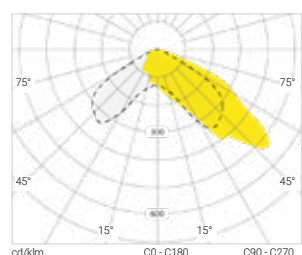


II 2G - 2D

Very high temperature



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
36	139	20900	17365	Glass	125	+70	DALI	14,00	818041EX
36	214	29800	24840	Glass	116	+60	DALI	14,00	818042EX
48	285	39800	33120	Glass	116	+60	DALI	14,50	818044EX



Asymmetrical 50° extra wide beam optics

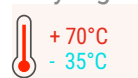
Included: wall-mounting bracket.

Power supply in an external aluminium alloy box, pre-wired with the projector and prepared for an enter/exit solution with No. 1 M25 cable gland and No. 1 M25 cap in technopolymer.

The stated flux and power values may be subject to a +/- 7% tolerance.

II 2G - 2D

Very high temperature



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
36	139	20900	17365	Glass	125	+70	DALI	14,00	818241EX
36	214	29800	24840	Glass	116	+60	DALI	14,00	818242EX
48	285	39800	33120	Glass	116	+60	DALI	14,50	818244EX

Accessories XTIGUA-EX floodlight on page 113

TIGUA-EX | Zone 2, 21, 22 | floodlight



WARRANTY
UP TO 7 YEARS



DIRECTIVES

2014/30/EU (EMC)
2014/34/EU (ATEX)
2011/65/EU (RoHS)
2012/19/EU (RAEE)

PRODUCT STANDARDS

EN 55015
EN 60079-0
EN 60079-18
EN 60079-31
EN 60079-7
EN 60598-1
EN 60598-2-1
EN 60598-2-5
EN 60598-2-22
EN 61000-3-2
EN 61000-3-3
EN 61547
EN 62311
EN 62493
EN 62471
IEC TR 62778
EN 63000

ATEX Gas execution	II 3G - Ex ec mc IIC T5/T4 Gc
ATEX Dust execution	II 2D - Ex tb IIIC T 75/T 85/T 95 °C Db
Body material	Aluminium alloy with low copper content (EN 44300)
Surface treatment	Fluorozirconate passivation
Surface finish	Hot-polymerized non-toxic polyester paint
Colour	Black RAL 9005
Diffuser material	Extra-clear tempered glass
Protection rating	IP66 as per IEC 60079-0 and 60598-1
Impact resistance	7J (body) 4J (glass)
Corrosion class	C5-M / C4-H (ISO 9223)
Mounting system	U-bracket with adjustment from -135° to +135°
Ambient operating temperature	-35 °C - +60 °C (-40 °C on request)
Ambient storage temperature	-40 °C - +70 °C
Actual efficacy of the device	Up to 142 lm/W
Colour temperature	4000 K
Optics features	Anti-aging and UV-resistant PMMA lenses with efficiency > 90% and transparency > 95%
Colour rendering index values	CRI ≥ 70 as per EN 62717
Colour consistency	MacAdam 4-step
Photobiological risk	RG0-Exempt Group (EN 62471)
Residual flicker	<4%
Luminous flux maintenance	L90 B10 @ 60,000 h Tq=+60 °C L90 B10 @ 110,000 h Tq=+40 °C L90 B10 @ 230,000 h Tq=+25 °C
Insulation class	I
Supply voltage	110-277 Vac / 110-250 Vdc (<95W) 160-277 Vac / 160-250 Vdc (>95W) 0/50/60 Hz
Surge protection	8 kV common mode and 6 kV differential mode (EN 61000-4-5)
Power factor	>0,95
Type of power supply	Spring terminals and cable glands M20
Max. conductor cross-section	2,5 mm²
Inlet cable diameter	10÷14 mm

Versions with colour temperatures from 3000 K to 6500 K and ambient temperatures up to -40 °C can also be produced.

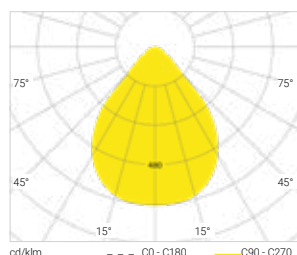
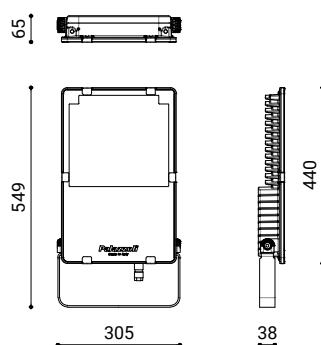
TAISBOX-EX series junction boxes certified for zones 1, 2, 21, 22 are available on request, complete with cable glands and clamps for entering cables with larger diameters and/or for entering/exiting solutions.

TIGUA-EX | Zone 2, 21, 22 | floodlight

Class
I

IP66

IK08



Symmetrical 81° extra wide beam optics

Included: wall-mounting bracket.

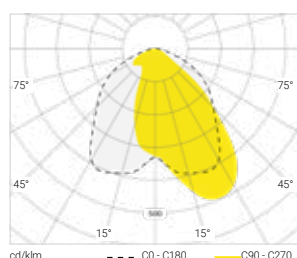
No. 1 M20 cable gland in technopolymer.

The stated flux and power values may be subject to a +/- 7% tolerance.

II 3G - 2D



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
12	47	7600	6312	Glass	134	+60	DALI	6,50	837021EX
12	73	10800	9000	Glass	123	+55	DALI	6,50	837022EX
24	89	15150	12625	Glass	142	+45	DALI	7,10	837023EX
24	141	21600	18000	Glass	128	+40	DALI	7,10	837024EX



Asymmetrical 23° extra wide beam optics

Included: wall-mounting bracket.

No. 1 M20 cable gland in technopolymer.

The stated flux and power values may be subject to a +/- 7% tolerance.

II 3G - 2D



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
12	47	7600	6312	Glass	134	+60	DALI	6,50	837221EX
12	73	10800	9000	Glass	123	+55	DALI	6,50	837222EX
24	89	15150	12625	Glass	142	+45	DALI	7,10	837223EX
24	141	21600	18000	Glass	128	+40	DALI	7,10	837224EX

Accessories TIGUA-EX floodlight on page 101

XTIGUA-EX | Zone 2, 21, 22 | floodlight



WARRANTY
UP TO 7 YEARS



DIRECTIVES

2014/30/EU (EMC)
2014/34/EU (ATEX)
2011/65/EU (RoHS)
2012/19/EU (RAEE)

PRODUCT STANDARDS

EN 55015
EN 60079-0
EN 60079-18
EN 60079-31
EN 60079-7
EN 60598-1
EN 60598-2-1
EN 60598-2-5
EN 60598-2-22
EN 61000-3-2
EN 61000-3-3
EN 61547
EN 62311
EN 62493
EN 62471
IEC TR 62778
EN 63000

ATEX Gas execution	II 3G - Ex ec mc IIC T5/T4 Gc
ATEX Dust execution	II 2D - Ex tb IIIC T 85 °C Db
Body material	Aluminium alloy with low copper content (EN 44300)
Surface treatment	Fluorozirconate passivation
Surface finish	Hot-polymerized non-toxic polyester paint
Colour	Black RAL 9005
Diffuser material	Extra-clear tempered glass
Protection rating	IP66 as per IEC 60079-0 and 60598-1
Impact resistance	7J (body) 4J (glass)
Corrosion class	C5-M / C4-H (ISO 9223)
Mounting system	U-bracket with adjustment from -110° to +110°
Ambient operating temperature	-35 °C - +45 °C (-40 °C on request)
Ambient storage temperature	-40 °C - +70 °C
Actual efficacy of the device	Up to 145 lm/W
Colour temperature	4000 K
Optics features	Anti-aging and UV-resistant PMMA lenses with efficiency > 90% and transparency > 95%
Colour rendering index values	CRI ≥ 70 as per EN 62717
Colour consistency	MacAdam 4-step
Photobiological risk	RG0-Exempt Group (EN 62471)
Residual flicker	<4%
Luminous flux maintenance	L90 B10 @ 110,000 h Tq=+40 °C L90 B10 @ 230,000 h Tq=+25 °C
Insulation class	I
Supply voltage	160-277 Vac / 160-250 Vdc 0/50/60 Hz
Surge protection	8 kV common mode and 6 kV differential mode (EN 61000-4-5)
Power factor	>0,95
Type of power supply	Spring terminals and cable glands M20
Max. conductor cross-section	2,5 mm²
Inlet cable diameter	10÷14 mm

Versions with colour temperatures from 3000 K to 6500 K and ambient temperatures up to -40 °C can also be produced.

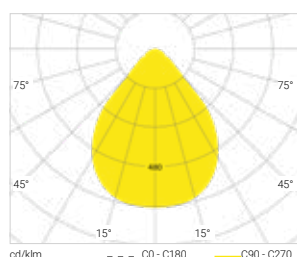
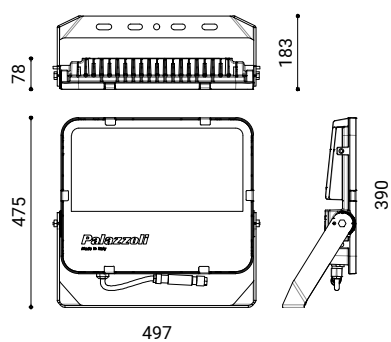
TAISBOX-EX series junction boxes certified for zones 1, 2, 21, 22 are available on request, complete with cable glands and clamps for entering cables with larger diameters and/or for entering/exiting solutions.

XTIGUA-EX | Zone 2, 21, 22 | floodlight

Class
I

IP66

IK08



Symmetrical 81° extra wide beam optics

Included: wall-mounting bracket.

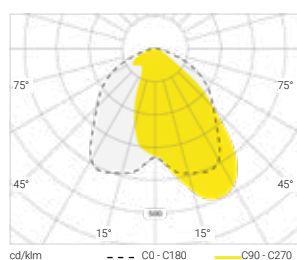
No. 1 M20 cable gland in technopolymer.

The stated flux and power values may be subject to a +/- 7% tolerance.

II 3G - 2D



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
36	139	23600	19630	Glass	141	+45	DALI	9,00	838021EX
36	214	33200	27648	Glass	129	+40	DALI	9,00	838022EX
48	181	31500	26208	Glass	145	+35	DALI	9,50	838023EX
48	285	44300	36864	Glass	129	+30	DALI	9,50	838024EX



Asymmetrical 23° extra wide beam optics

Included: wall-mounting bracket.

No. 1 M20 cable gland in technopolymer.

The stated flux and power values may be subject to a +/- 7% tolerance.

II 3G - 2D



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
36	139	23600	19630	Glass	141	+45	DALI	9,00	838221EX
36	214	33200	27648	Glass	129	+40	DALI	9,00	838222EX
48	181	31500	26208	Glass	145	+35	DALI	9,50	838223EX
48	285	44300	36864	Glass	129	+30	DALI	9,50	838224EX

Accessories XTIGUA-EX floodlight on page 113





Light fixtures

Mines

Road tunnel excavations

Railway tunnel excavations

Underground areas with firedamp
(grisou) presence

Atex



RINO-EX Group I M2

from 3400 lm to 12353 lm
Page 188

RINO-EX Group I M2



WARRANTY
UP TO 7 YEARS



DIRECTIVES

2014/30/EU (EMC)
2014/34/EU (ATEX)
2011/65/EU (RoHS)
2012/19/EU (RAEE)

PRODUCT STANDARDS

EN 55015
EN 60079-0
EN 60079-18
EN 60079-31
EN 60079-7
EN 60598-1
EN 60598-2-1
EN 60598-2-22
EN 61000-3-2
EN 61000-3-3
EN 61547
EN 62311
EN 62493
EN 62471
IEC TR 62778
EN 63000

ATEX Gas execution Group I	I M2 Ex eb mb I Mb
ATEX Gas execution	II 2G - Ex eb mb IIC T6/T5/T4 Gb
ATEX Dust execution	II 2D - Ex tb IIIC T 85 °C Db
Body material	AISI 304 stainless steel
Surface treatment	Natural finishing
Diffuser material	Extra-clear tempered glass
Protection rating	IP65 as per IEC 60079-0 IP66 as per IEC 60598-1
Impact resistance	7J (body) 4J (glass)
Corrosion class	C5-H AISI 304 stainless steel (ISO 9223)
Mounting system	Pair of AISI 304 stainless steel eyebolts
Ambient operating temperature	-40 °C - +60 °C 0 °C - +45 °C (emergency versions)
Ambient storage temperature	-40 °C - +75 °C -20 °C - +60 °C (emergency versions)
Actual efficacy of the device	Up to 148 lm/W
Colour temperature	4000 K
Optics features	Anti-aging silicon resin and UV resistant with efficiency > 95%
Colour rendering index values	CRI≥80 as per EN 62717
Photobiological risk	RG0-Exempt Group (EN 62471)
Residual flicker	<4%
Luminous flux maintenance	L80 B10 @ 40,000 h Tq=+60 °C L80 B10 @ 90,000 h Tq=+25 °C
Insulation class	I
Supply voltage	220-240 Vac / 180-240 Vdc (on-off versions) 220-240 Vac (emergency versions) 110-277 Vac / 110-250 Vdc (only DALI version)
Surge protection	8 kV common mode and 6 kV differential mode (EN 61000-4-5)
Power factor	>0,95
Type of power supply	Spring terminals and cable glands M25
Max. conductor cross-section	2,5 mm²
Entry cable diameter	12÷19 mm

Versions in AISI 316L stainless steel and with colour temperatures from 3000 K to 6500 K can also be produced.

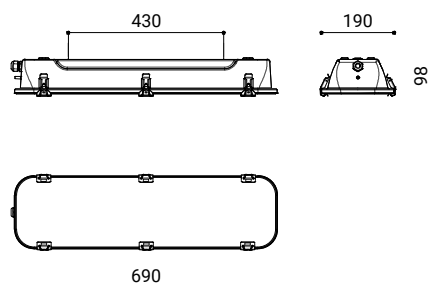
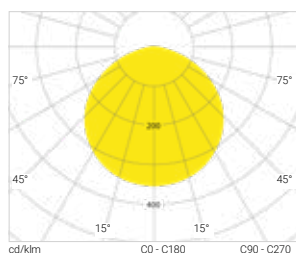
RINO-EX Group I M2 | 690 mm

Classe
I

IP65

IP66

IK09

2 entries on
one end1 entry on
one endNickel-plated brass
cable gland M25

Symmetrical 110° extra wide beam optics

Included: pair of AISI 304 stainless steel eyebolts for pendant mounting.

No. 2 M25 cable glands and No. 1 M25 cap in technopolymer.

The light fixture is designed for through wiring.

The stated flux and power values may be subject to a +/- 7% tolerance.

I M2
II 2G 2D
Stainless steel



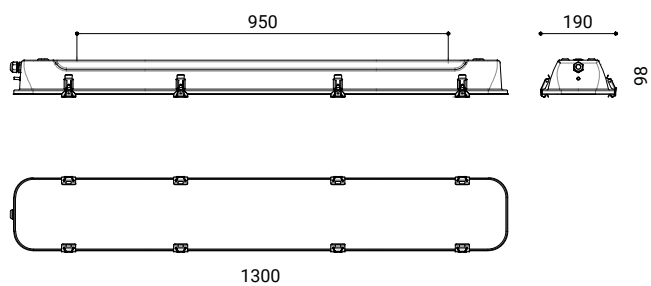
LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
192	24	4080	3400	Glass	148	+60	On-off	4,60	822152EX
192	36	6200	5180	Glass	144	+50	On-off	4,60	822252EX
192	57	9450	7870	Glass	140	+45	On-off	4,60	822352EX
192	71	11550	9623	Glass	136	+35	On-off	4,60	822452EX

I M2
II 2G 2D
Stainless steel
Emergency



192	36	6200	5180 (967 in EM)	Glass	144	+45	On-off 1h Emergency	5,30	822250EX
192	71	11550	9623 (912 in EM)	Glass	136	+35	On-off 1h Emergency	5,30	822450EX
192	36	6200	5180 (420 in EM)	Glass	144	+45	On-off 3h Emergency	5,30	822253EX
192	71	11550	9623 (414 in EM)	Glass	136	+35	On-off 3h Emergency	5,30	822453EX

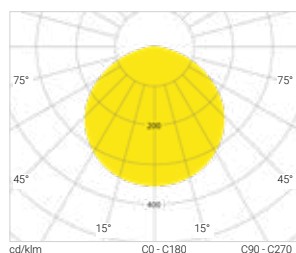
RINO-EX Group I M2 | 1300 mm

Classe
I

IP65

IP66

IK09

2 entries on
one end1 entry on
one endNickel-plated brass
cable gland M25

Symmetrical 110° extra wide beam optics

Included: pair of AISI 304 stainless steel eyebolts for pendant mounting.

No. 2 M25 cable glands and No. 1 M25 cap in technopolymer.

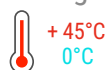
The light fixture is designed for through wiring.

The stated flux and power values may be subject to a +/- 7% tolerance.

	LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
I M2 II 2G 2D Stainless steel	384	86	14800	12353	Glass	144	+45	DALI	7,20	822752EX



I M2
II 2G 2D
Stainless steel
Emergency



384	86	14800	12353 (930 in EM)	Glass	144	+45	On-off 1h Emergency	7,80	822750EX
384	86	14800	12353 (400 in EM)	Glass	144	+45	On-off 3h Emergency	7,80	822753EX

Accessories RINO-EX Group I M2 on page 201



Ceiling lights and pendants

Petrochemical and pharmaceutical plants
 Painting plants
 Metalworking
 Woodworking
 Food powders



RINO-EX
 zone 1, 2, 21, 22

from 3400 lm to 12353 lm
 Page 192



RINO-EX
 zone 2, 21, 22

from 3562 lm to 10050 lm
 Page 197



TIGUA-EX
 zone 1, 2, 21, 22

from 5808 lm to 16560 lm
 Page 202



XTIGUA-EX
 zone 1, 2, 21, 22

from 17365 lm to 33120 lm
 Page 205



META150-EX
 zone 2, 21, 22

from 8580 lm to 19832 lm
 Page 209

RINO-EX | Zone 1, 2, 21, 22



ATEX Gas execution	II 2G - Ex eb mb IIC T6/T5/T4 Gb
ATEX Dust execution	II 2D - Ex tb IIIC T 85 °C Db
Body material	AISI 304 stainless steel
Surface treatment	Natural finishing
Diffuser material	Extra-clear tempered glass
Protection rating	IP65 as per IEC 60079-0 IP66 as per IEC 60598-1
Impact resistance	7J (body) 4J (glass)
Corrosion class	C5-H AISI 304 stainless steel (ISO 9223)
Mounting system	Pair of AISI 304 stainless steel eyebolts
Ambient operating temperature	-35 °C - +60 °C (-40 °C on request) 0 °C - +45 °C (emergency versions) -35 °C - +70 °C (very high temperature)
Ambient storage temperature	-40 °C - +75 °C -20 °C - +60 °C (emergency versions)
Actual efficacy of the device	Up to 148 lm/W
Colour temperature	4000 K
Optics features	Anti-aging silicon resin and UV resistant with efficiency > 95%
Colour rendering index values	CRI≥80 as per EN 62717
Photobiological risk	RG0-Exempt Group (EN 62471)
Residual flicker	<4%
Luminous flux maintenance	L80 B10 @ 50,000 h Tq=+70 °C (very high temperature) L80 B10 @ 90,000 h Tq=+25 °C
Insulation class	I
Supply voltage	220-240 Vac / 180-240 Vdc (on-off versions) 220-240 Vac (emergency versions) 110-277 Vac / 110-250 Vdc (only DALI version)
Surge protection	8 kV common mode and 6 kV differential mode (EN 61000-4-5)
Power factor	>0,95
Type of power supply	Spring terminals and cable glands M20 Spring terminals and cable glands M25 (very high temperature)
Max. conductor cross-section	2,5 mm² 1÷4 mm² (very high temperature)
Entry cable diameter	10÷14 mm 12÷18 mm (very high temperature)



WARRANTY
UP TO 7 YEARS



DIRECTIVES

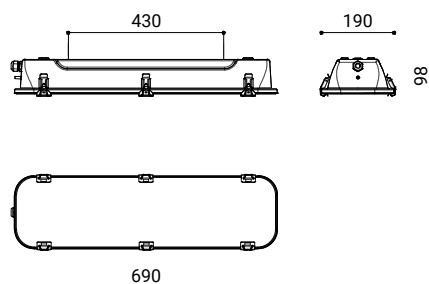
2014/30/EU (EMC)
2014/34/EU (ATEX)
2011/65/EU (RoHS)
2012/19/EU (RAEE)

PRODUCT STANDARDS

EN 55015
EN 60079-0
EN 60079-18
EN 60079-31
EN 60079-7
EN 60598-1
EN 60598-2-1
EN 60598-2-22
EN 61000-3-2
EN 61000-3-3
EN 61547
EN 62311
EN 62493
EN 62471
IEC TR 62778
EN 63000

Versions in AISI 316L stainless steel and with colour temperatures from 3000 K to 6500 K can also be produced.

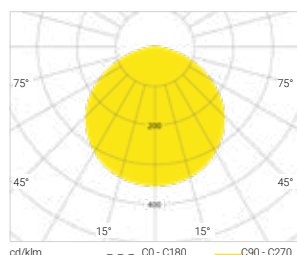
RINO-EX | Zone 1, 2, 21, 22 | 690 mm

Class
I

IP65

IP66

IK09

2 entries on
one end1 entry on
one endTechnopolymer
cable gland M20

Symmetrical 110° extra wide beam optics

Included: pair of AISI 304 stainless steel eyebolts for pendant mounting.

No. 1 M20 cable gland and No. 2 M20 caps in technopolymer.

The light fixture is designed for through wiring.

The stated flux and power values may be subject to a +/- 7% tolerance.

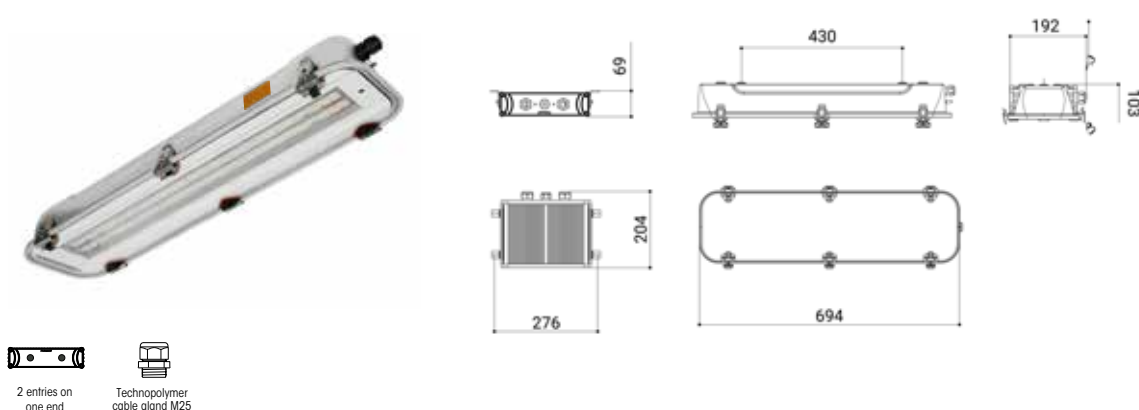
LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
II 2G - 2D Stainless steel	192	23	4080	3400	Glass	148	+60	On-off	4,60 821172EX
	192	36	6200	5180	Glass	144	+50	On-off	4,60 821272EX
	192	56	9450	7870	Glass	140	+45	On-off	4,60 821372EX
	192	71	11550	9623	Glass	136	+35	On-off	4,60 821472EX



II 2G - 2D Stainless steel Emergency	192	36	6200	5180 (967 in EM)	Glass	144	+45	On-off 1h Emergency	5,30 821270EX
	192	71	11550	9623 (912 in EM)	Glass	136	+35	On-off 1h Emergency	5,30 821470EX
	192	36	6200	5180 (420 in EM)	Glass	144	+45	On-off 3h Emergency	5,30 821273EX
	192	71	11550	9623 (414 in EM)	Glass	136	+35	On-off 3h Emergency	5,30 821473EX



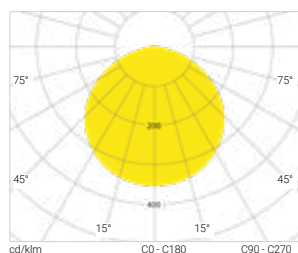
RINO-EX | Zone 1, 2, 21, 22 | 690 mm

Class
I

IP65

IP66

IK09



Symmetrical 110° extra wide beam optics

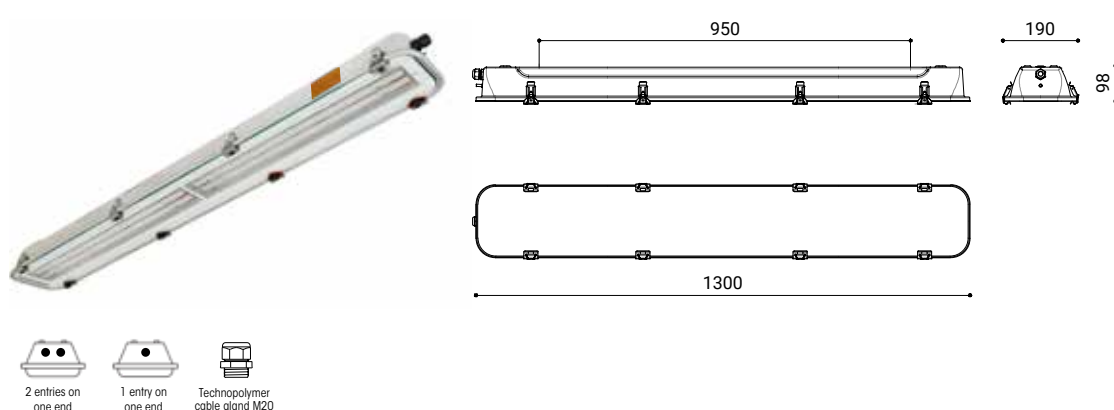
Included: pair of AISI 304 stainless steel eyebolts for pendant mounting.
Power supply in an external aluminum alloy box, pre-wired with the light fixture and prepared for an enter/exit solution with No. 1 M25 cable gland and No. 1 M25 cap in technopolymer.
The stated flux and power values may be subject to a +/- 7% tolerance.

II 2G - 2D
Stainless steel
Very high temperature



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
192	24	4080	3400	Glass	148	+70	On-off	7,60	821112EX
192	36	6200	5180	Glass	144	+70	On-off	7,60	821212EX
192	57	9450	7870	Glass	140	+70	On-off	7,60	821312EX
192	71	11550	9623	Glass	136	+70	On-off	7,60	821412EX

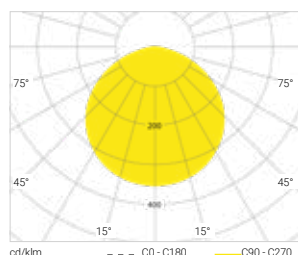
RINO-EX | Zone 1, 2, 21, 22 | 1300 mm

Class
I

IP65

IP66

IK09



Symmetrical 110° extra wide beam optics

Included: pair of AISI 304 stainless steel eyebolts for pendant mounting.

No. 1 M20 cable gland and No. 2 M20 caps in technopolymer.

The light fixture is designed for through wiring.

The stated flux and power values may be subject to a +/- 7% tolerance.

II 2G - 2D
Stainless steel

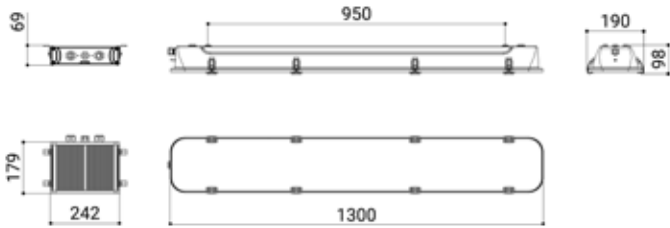
LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
192	47	8200	6831	Glass	145	+60	On-off	7,20	821572EX*
192	71	11690	9736	Glass	137	+45	On-off	7,20	821672EX*
384	86	14800	12353	Glass	144	+45	DALI	7,20	821772EX

II 2G - 2D
Stainless steel
Emergency

192	71	11690	9736 (925 in EM)	Glass	137	+45	On-off 1h Emergency	7,80	821670EX*
384	86	14800	12353 (930 in EM)	Glass	144	+45	On-off 1h Emergency	7,80	821770EX
192	71	11690	9736 (420 in EM)	Glass	137	+45	On-off 3h Emergency	7,80	821673EX*
384	86	14800	12353 (400 in EM)	Glass	144	+45	On-off 3h Emergency	7,80	821773EX

* LED modul occupie half of the lenght of the fixture (650 mm respect 1300 mm).

RINO-EX | Zone 1, 2, 21, 22 | 1300 mm



Class
I

IP65

IP66

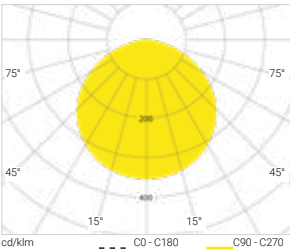
IK09



2 entries on
one end



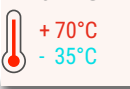
Technopolymer
cable gland M25



Symmetrical 110° extra wide beam optics

Included: pair of AISI 304 stainless steel eyebolts for pendant mounting.
Power supply in an external aluminum alloy box, pre-wired with the light fixture and prepared for an enter/exit solution with No. 1 M25 cable gland and No. 1 M25 cap in technopolymer.
The stated flux and power values may be subject to a +/- 7% tolerance.

II 2G - 2D
Stainless steel
Very high temperature



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
384	86	14800	12353	Glass	144	+70	DALI	10,20	821712EX

Accessories RINO-EX on page 201

RINO-EX | Zone 2, 21, 22



WARRANTY
UP TO 7 YEARS



DIRECTIVES

2014/30/EU (EMC)
2014/34/EU (ATEX)
2011/65/EU (RoHS)
2012/19/EU (RAEE)

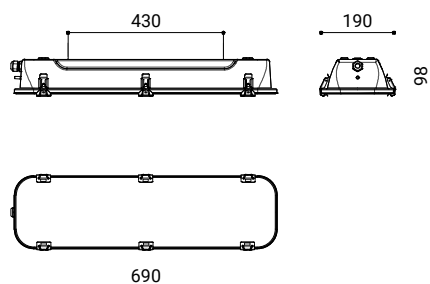
PRODUCT STANDARDS

EN 55015
EN 60079-0
EN 60079-18
EN 60079-31
EN 60079-7
EN 60598-1
EN 60598-2-1
EN 60598-2-22
EN 61000-3-2
EN 61000-3-3
EN 61547
EN 62311
EN 62493
EN 62471
IEC TR 62778
EN 63000

ATEX Gas execution	II 3G - Ex ec mc IIC T6/T5/T4 Gc
ATEX Dust execution	II 2D - Ex tb IIIC T 85 °C Db
Body material	AISI 304 stainless steel Painted galvanized steel
Surface treatment	Fluorozirconate passivation
Surface finish	Hot-polymerized non-toxic polyester paint
Colour	RAL 9016
Diffuser material	Extra-clear tempered glass
Protection rating	IP65 as per IEC 60079-0 IP66 as per IEC 60598-1
Impact resistance	7J (body) 4J (glass)
Corrosion class	C5-H AISI 304 stainless steel (ISO 9223)
Mounting system	Pair of AISI 304 stainless steel eyebolts
Ambient operating temperature	-35 °C - +55 °C (-40°C on request) 0 °C - +45 °C (emergency versions)
Ambient storage temperature	-40 °C - +70 °C -30 °C - +50 °C (emergency versions)
Actual efficacy of the device	Up to 137 lm/W
Colour temperature	4000 K
Optics features	Non-ageing UV-resistant PMMA lenses with efficiency > 90% and transparency >95%
Colour rendering index values	CRI≥80 as per EN 62717
Colour consistency	MacAdam 3-step
Photobiological risk	RG0-Exempt Group (EN 62471)
Residual flicker	<4%
Luminous flux maintenance	L80 B10 @ 50,000 h Tq=+25 °C
Insulation class	I
Supply voltage	220-240 Vac / 180-240 Vdc (on-off versions) 220-240 Vac (emergency versions)
Surge protection	8 kV common mode and 6 kV differential mode (EN 61000-4-5)
Power factor	>0,95
Type of power supply	Spring terminals and cable glands M20
Max. conductor cross-section	2,5 mm²
Entry cable diameter	10÷14 mm

Special versions can be made by combining materials and optics. Versions with room temperature up to -40°C and +60°C ; in AISI 316L stainless steel and with colour temperatures from 3000 K to 6500 K can also be produced.

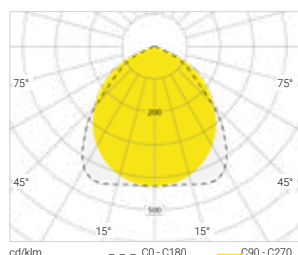
RINO-EX | Zone 2, 21, 22 | 690 mm

Class
I

IP65

IP66

IK09

2 entries on
one end1 entry on
one endTechnopolymer
cable gland M20

Symmetrical 88° comfort beam optics

Included: pair of AISI 304 stainless steel eyebolts for pendant mounting.

No. 1 M20 cable gland and No. 2 M20 caps in technopolymer.

The light fixture is designed for through wiring.

The stated flux and power values may be subject to a +/- 7% tolerance.

II 3G - 2D
Stainless steel

LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
48	26	4100	3562	Glass	137	On-off	4,58	821192EX
72	38	6133	5130	Glass	135	On-off	4,62	821292EX

II 3G - 2D
Stainless steel
Emergency

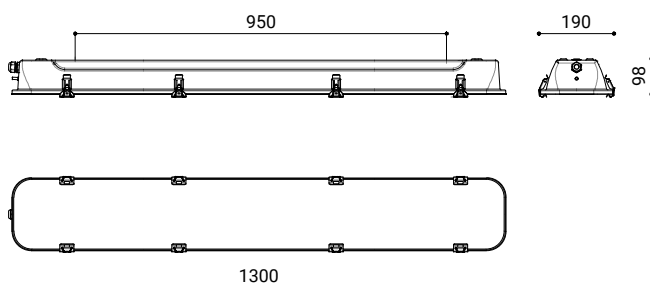
48	26	4100	3562 (589 in EM)	Glass	589	On-off 1h Emergency	5,26	821190EX
72	38	6133	5130 (1082 in EM)	Glass	1082	On-off 1h Emergency	5,30	821290EX
48	26	4100	3562 (347 in EM)	Glass	347	On-off 3h Emergency	3,90	821193EX
72	38	6133	5130 (446 in EM)	Glass	446	On-off 3h Emergency	3,90	821293EX

II 3G - 2D
Painted galvanized steel

48	26	4100	3562	Glass	137	On-off	4,96	841192EX
72	38	6133	5130	Glass	135	On-off	4,62	841292EX



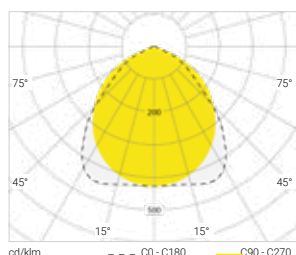
RINOLED-EX | Zone 2, 21, 22 | 1300 mm

Class
I

IP65

IP66

IK09

2 entries on
one end1 entry on
one endTechnopolymer
cable gland M20

Symmetrical 88° comfort beam optics

Included: pair of AISI 304 stainless steel eyebolts for pendant mounting.

No. 1 M20 cable gland and No. 2 M20 caps in technopolymer.

The light fixture is designed for through wiring.

The stated flux and power values may be subject to a +/- 7% tolerance.

II 3G - 2D
Stainless steel

LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
96	52	8200	7072	Glass	136	On-off	7,23	821392EX
144	75	12260	10050	Glass	134	On-off	6,27	821492EX

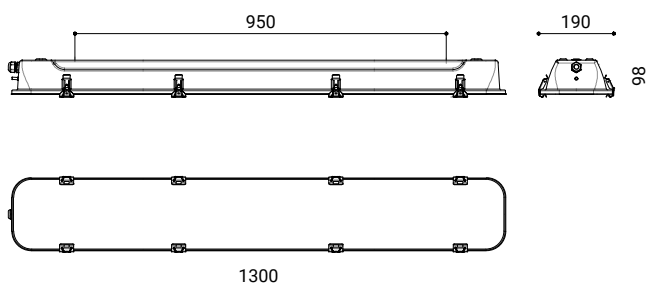
II 3G - 2D
Stainless steel
Emergency

96	52	8200	7072 (1054 in EM)	Glass	1054	On-off 1h Emergency	7,76	821390EX
144	75	12260	10050 (996 in EM)	Glass	996	On-off 1h Emergency	6,58	821490EX
96	52	8200	7072 (427 in EM)	Glass	427	On-off 3h Emergency	8,54	821393EX
144	75	12260	10050 (419 in EM)	Glass	419	On-off 3h Emergency	6,70	821493EX

II 3G - 2D
Painted galvanized steel

96	52	8200	7072	Glass	136	On-off	6,37	841392EX
144	75	12260	10050	Glass	134	On-off	7,96	841492EX

RINO-EX | Zone 2, 21, 22 | 1300 mm

Class
I

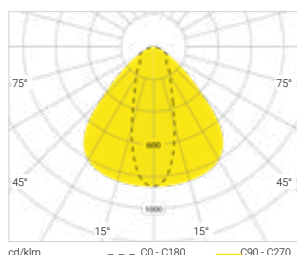
IP65

IP66

IK09



2 entries on one end
1 entry on one end
Technopolymer cable gland M20



Symmetrical 30° x 90° narrow beam optics

Included: pair of AISI 304 stainless steel eyebolts for pendant mounting.

No. 1 M20 cable gland and No. 2 M20 caps in technopolymer.

The light fixture is designed for through wiring.

The stated flux and power values may be subject to a +/- 7% tolerance.



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
II 3G - 2D Stainless steel	96	52	8200	Glass	125	On-off	6,20	820392EX
	144	75	12260	Glass	127	On-off	7,76	820492EX



II 3G - 2D Painted galvanized steel	96	52	8200	6500	Glass	125	On-off	6,30	840392EX
	144	75	12260	9525	Glass	127	On-off	6,30	840492EX





Accessories RINO-EX



RINO-EX equipped with **hooks for pendant mounting**

Pair of swivel mounts for wall or ceiling mounting

	Material: AISI 304 Stainless steel
	Code: 820010

Pairs of "V" supports for ceiling mounting

	Material: AISI 304 Stainless steel
	Code: 820017

Pairs of hooks for pendant mounting

	Material: AISI 304 Stainless steel
	Code: 820011

Adaptation kit for pendant mounting and ceiling

	Material: AISI 304 Stainless steel
	Code: 820018

Pair of collars for tube installation

	Material: AISI 304 Stainless steel
	Code: 820016

Quick ceiling mounting fastening Kit

	Material: AISI 304 Stainless steel
	Code: 820019

Notes: in case of relamping, the adaptation kit allows you to adjust the mounting hole spacing of the light fixture to those already present in the system.

TIGUA-EX | Zone 1, 2, 21, 22 | pendant mounting



ATEX Gas execution	II 2G - Ex eb mb IIC T6/T5/T4 Gb
ATEX Dust execution	II 2D - Ex tb IIIC T 75/T 85/T 95 °C Db
Body material	Aluminium alloy with low-content of copper (EN 44300)
Surface treatment	Fluorozirconate passivation
Surface finish	Hot-polymerized non-toxic polyester paint
Colour	Black RAL 9005
Diffuser material	Extra-clear tempered glass
Protection rating	IP66 as per IEC 60079-0 and 60598-1
Impact resistance	7J (body) 4J (glass)
Corrosion class	C5-M / C4-H (ISO 9223)
Mounting system	Pendant mounting
Ambient operating temperature	-35 °C - +60 °C -35 °C - +70 °C (very high temperature) (-40 °C on request)
Ambient storage temperature	-40 °C - +70 °C
Actual efficacy of the device	Up to 131 lm/W
Colour temperature	4000 K
Optics features	UV-stabilized polycarbonate lens sealed on the LED module with silicon resin
Colour rendering index values	CRI≥80 as per EN 62717
Colour consistency	MacAdam 4-step
Photobiological risk	RG0-Exempt Group (EN 62471)
Residual flicker	<4%
Luminous flux maintenance	L90 B10 @ 100,000 h Tq=+70 °C (very high temperature) L90 B10 @ 110,000 h Tq=+40 °C L90 B10 @ 230,000 h Tq=+25 °C
Insulation class	I
Supply voltage	110-277 Vac / 110-250 Vdc (<95W) 160-277 Vac / 160-250 Vdc (>95W) 0/50/60 Hz
Surge protection	8 kV common mode and 6 kV differential mode (EN 61000-4-5)
Power factor	>0,95
Type of power supply	Spring terminals and cable glands M20 Spring terminals and cable glands M25 (very high temperature)
Max. conductor cross-section	2,5 mm ² 1÷4 mm ² (very high temperature)
Inlet cable diameter	10÷14 mm 12÷18 mm (very high temperature)

Versions with colour temperatures from 3000 K to 6500 K and ambient temperatures up to -40 °C can also be produced.

TAISBOX-EX series junction boxes certified for zones 1, 2, 21, 22 are available on request, complete with cable glands and clamps for entering cables with larger diameters and/or for entering/exiting solutions.



WARRANTY
UP TO 7 YEARS



DIRECTIVES

2014/30/EU (EMC)
2014/34/EU (ATEX)
2011/65/EU (RoHS)
2012/19/EU (RAEE)

PRODUCT STANDARDS

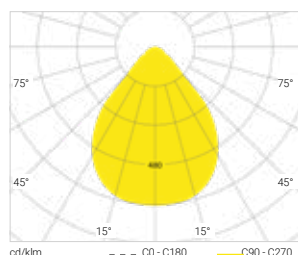
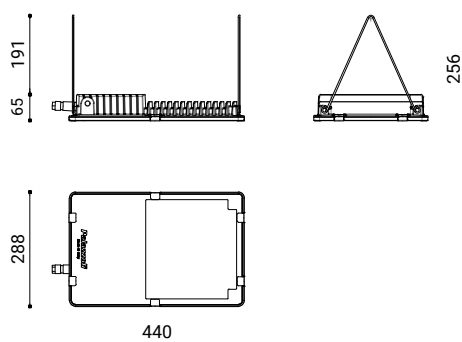
EN 55015
EN 60079-0
EN 60079-18
EN 60079-31
EN 60079-7
EN 60598-1
EN 60598-2-1
EN 60598-2-5
EN 60598-2-22
EN 61000-3-2
EN 61000-3-3
EN 61547
EN 62311
EN 62493
EN 62471
IEC TR 62778
EN 63000

TIGUA-EX | Zone 1, 2, 21, 22 | pendant mounting

Class
I

IP66

IK08



Symmetrical 81° extra wide beam optics

Included: double chain and busbar attachment.

Recommended installation height: between 4 m and 7 m.

No. 1 M20 cable gland in technopolymer.

The stated flux and power values may be subject to a +/- 7% tolerance.

	LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
II 2G - 2D	12	47	6980	5808	Glass	124	+60	DALI	6,50	817031EX
	12	73	9950	8280	Glass	113	+55	DALI	6,50	817032EX
	24	89	13950	11615	Glass	131	+45	DALI	7,10	817033EX
	24	141	19850	16560	Glass	117	+40	DALI	7,10	817034EX



Accessories TIGUA-EX pendant mounting

0 - 90° adjustable attachment for tensioned installation



Material:
Galvanized steel

Code: **811921**

0 - 90° adjustable attachment for double chain and busbar installation



Material:
Galvanized steel

Code: **811919**

Kit with bracket for ceiling mounting



Material:
Galvanized steel

Code: **811916**

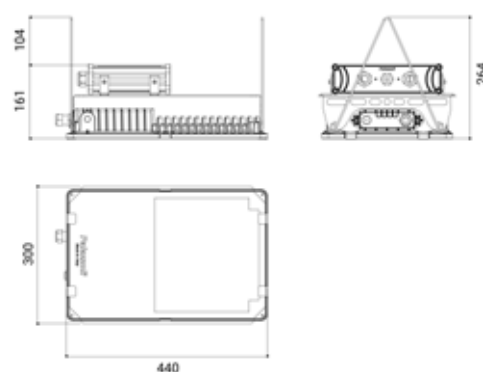
Set of brackets for post installation Ø 60 mm



Material:
Galvanized steel

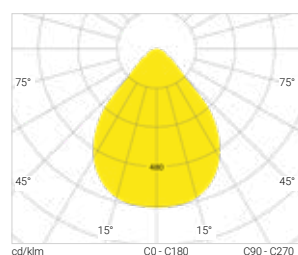
Code: **811920**

TIGUA-EX | Zone 1, 2, 21, 22 | pendant mounting

Class
I

IP66

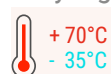
IK08

2 entries on
one endTechnopolymer
cable gland M25

Symmetrical 81° extra wide beam optics

Included: double chain and busbar attachment. Recommended installation height: between 4 m and 7 m.
Power supply in an external aluminium alloy box, pre-wired with the projector and prepared for an enter/exit solution with No. 1 M25 cable gland and No. 1 M25 cap in technopolymer.
The stated flux and power values may be subject to a +/- 7% tolerance.

II 2G - 2D Very high temperature



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
12	47	6980	5808	Glass	124	+70	DALI	9,50	817051EX
12	73	9950	8280	Glass	113	+70	DALI	9,50	817052EX
24	89	13950	11615	Glass	131	+70	DALI	10,10	817053EX
24	141	19850	16560	Glass	117	+60	DALI	10,10	817054EX

XTIGUA-EX | Zone 1, 2, 21, 22 | pendant mounting



WARRANTY
UP TO 7 YEARS



DIRECTIVES

2014/30/EU (EMC)
2014/34/EU (ATEX)
2011/65/EU (RoHS)
2012/19/EU (RAEE)

PRODUCT STANDARDS

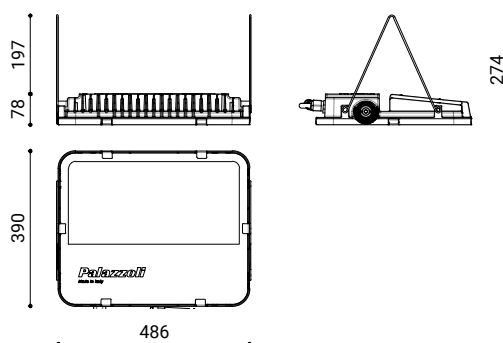
EN 55015
EN 60079-0
EN 60079-18
EN 60079-31
EN 60079-7
EN 60598-1
EN 60598-2-1
EN 60598-2-5
EN 60598-2-22
EN 61000-3-2
EN 61000-3-3
EN 61547
EN 62311
EN 62493
EN 62471
IEC TR 62778
EN 63000

ATEX Gas execution	II 2G - Ex eb mb IIC T5 Gb
ATEX Dust execution	II 2D - Ex tb IIIC T 85 °C Db
Body material	Aluminium alloy with low copper content (EN 44300)
Surface treatment	Fluorozirconate passivation
Surface finish	Hot-polymerized non-toxic polyester paint
Colour	Black RAL 9005
Diffuser material	Extra-clear tempered glass
Protection rating	IP66 as per IEC 60079-0 and 60598-1
Impact resistance	7J (body) 4J (glass)
Corrosion class	C5-M / C4-H (ISO 9223)
Mounting system	Pendant mounting
Ambient operating temperature	-35 °C - +45 °C -35 °C - +70 °C (very high temperature) (-40 °C on request)
Ambient storage temperature	-40 °C - +70 °C
Actual efficacy of the device	Up to 128 lm/W
Colour temperature	4000 K
Optics features	UV-stabilized polycarbonate lens sealed on the LED module with silicon resin
Colour rendering index values	CRI≥80 as per EN 62717
Colour consistency	MacAdam 4-step
Photobiological risk	RG0-Exempt Group (EN 62471)
Residual flicker	<4%
Luminous flux maintenance	L90 B10 @ 100,000 h Tq=+70 °C (very high temperature) L90 B10 @ 110,000 h Tq=+40 °C L90 B10 @ 230,000 h Tq=+25 °C
Insulation class	I
Supply voltage	160-277 Vac / 160-250 Vdc 0/50/60 Hz
Surge protection	8 kV common mode and 6 kV differential mode (EN 61000-4-5)
Power factor	>0,95
Type of power supply	Spring terminals and cable glands M20 Spring terminals and cable glands M25 (very high temperature)
Max. conductor cross-section	2,5 mm ² 1÷4 mm ² (very high temperature)
Inlet cable diameter	10÷14 mm 12÷18 mm (very high temperature)

Versions with colour temperatures from 3000 K to 6500 K and ambient temperatures up to -40 °C can also be produced.

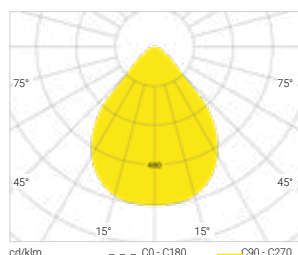
TAISBOX-EX series junction boxes certified for zones 1, 2, 21, 22 are available on request, complete with cable glands and clamps for entering cables with larger diameters and/or for entering/exiting solutions.

XTIGUA-EX | Zone 1, 2, 21, 22 | pendant mounting

Class
I

IP66

IK08



Symmetrical 81° extra wide beam optics

Included: double chain and busbar attachment.

Recommended installation height: between 9 m and 15 m.

No. 1 M20 cable gland in technopolymer.

The stated flux and power values may be subject to a +/- 7% tolerance.



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code	
II 2G - 2D	36	139	20900	17365	Glass	125	+45	DALI	9,00	818031EX
	36	214	29800	24840	Glass	116	+40	DALI	9,00	818032EX
	48	181	27800	23115	Glass	128	+35	DALI	9,50	818033EX
	48	285	39800	33120	Glass	116	+30	DALI	9,50	818034EX



+ 45°C

- 35°C



Accessories TIGUA-EX pendant mounting

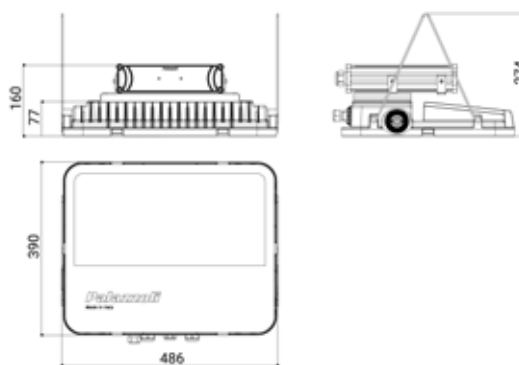
0 - 90° adjustable attachment for double chain installation - M size

Material:
Galvanized steelCode: **819994**

Ceiling mounting bracket kit - M size

Material:
Galvanized steelCode: **819996**

XTIGUA-EX | Zone 1, 2, 21, 22 | pendant mounting



2 entries on one end



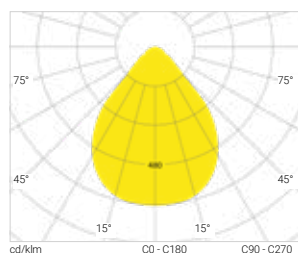
Technopolymer cable gland M25



Class I

IP66

IK08



Symmetrical 81° extra wide beam optics

Included: double chain and busbar attachment. Recommended installation height: between 9 m and 15 m.
Power supply in an external aluminium alloy box, pre-wired with the projector and prepared for an enter/exit solution with No. 1 M25 cable gland and No. 1 M25 cap in technopolymer.
The stated flux and power values may be subject to a +/- 7% tolerance.

II 2G - 2D

Very high temperature



LED No.	Power (W)	Nominal flux (lm) T _j =25°C	Output flux (lm) T _q =25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
36	139	20900	17365	Glass	125	+70	DALI	14,00	818051EX
36	214	29800	24840	Glass	116	+60	DALI	14,00	818052EX
48	285	39800	33120	Glass	116	+60	DALI	14,50	818054EX

META150-EX | Zone 2, 21, 22 | pendant mounting



ATEX Gas execution	II 3G - Ex ec mc IIC T6/T5 Gc
ATEX Dust execution	II 2D - Ex tb IIIC T 65/T 75/T 85 °C Db
Body material	Aluminium alloy EN 46100
Surface treatment	Fluorozirconate passivation
Surface finish	Hot-polymerized non-toxic polyester paint
Colour	Black RAL 9005
Diffuser material	Extra-clear tempered glass
Protection rating	IP66 as per IEC 60079-0 and 60598-1
Impact resistance	7J (body) 4J (glass)
Corrosion class	C4-M / C3-H (ISO 9223)
Mounting system	Quick connection for pendant mounting
Ambient operating temperature	-35 °C ÷ +50 °C (-40 °C; +50 °C on request)
Ambient storage temperature	-40 °C - +70 °C
Actual efficacy of the device	Up to 148 lm/W
Colour temperature	4000 K
Optics features	Anti-aging UV-resistant polycarbonate lenses with efficiency > 90% and transparency > 95%
Colour rendering index values	CRI≥80 as per EN 62717
Colour consistency	MacAdam 3-step
Photobiological risk	RG0-Exempt Group (EN 62471)
Residual flicker	<4%
Luminous flux maintenance	L90 B10 @ 110,000 h Tq=+40 °C L90 B10 @ 230,000 h Tq=+25 °C
Insulation class	I
Supply voltage	220-240 Vac / 180-240 Vdc (84 LED) 110-277 Vac / 110-250 Vdc (112 LED) 160-277 Vac / 160-250 Vdc (140-168 LED) 0/50/60 Hz
Surge protection	8 kV common mode and 6 kV differential mode (EN 61000-4-5)
Power factor	>0,95
Type of power supply	Spring terminals and cable glands M20
Max. conductor cross-section	2,5 mm²
Entry cable diameter	10÷14 mm

Versions with colour temperatures from 3000 K to 6500 K and with ambient temperature up to -40°C and +50°C can also be produced.

TAISBOX-EX series junction boxes certified for zones 1, 2, 21, 22 are available on request, complete with cable glands and clamps for entering cables with larger diameters and/or for entering/exiting solutions.



WARRANTY
UP TO 7 YEARS



DIRECTIVES

2014/30/EU (EMC)
2014/34/EU (ATEX)
2011/65/EU (RoHS)
2012/19/EU (RAEE)

PRODUCT STANDARDS

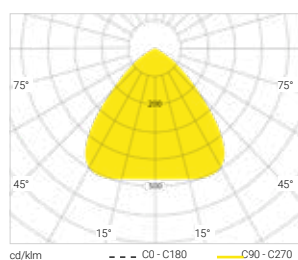
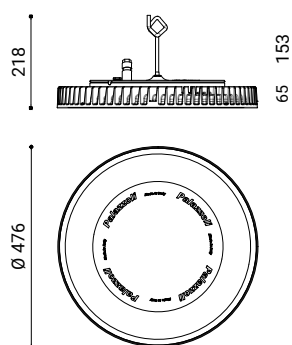
EN 55015
EN 60079-0
EN 60079-18
EN 60079-31
EN 60079-7
EN 60598-1
EN 60598-2-1
EN 60598-2-5
EN 60598-2-22
EN 61000-3-2
EN 61000-3-3
EN 61547
EN 62311
EN 62493
EN 62471
IEC TR 62778
EN 63000

META150-EX | Zone 2, 21, 22 | pendant mounting

Class
I

IP66

IK08



Symmetrical 90° comfort beam optics

Included: quick connection for pendant mounting.

Recommended installation height: between 5 m and 8 m.

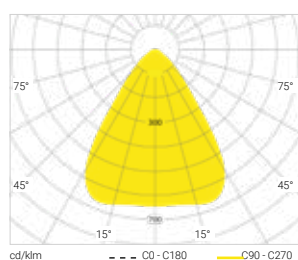
No. 1 M20 cable gland in technopolymer.

The stated flux and power values may be subject to a +/- 7% tolerance.

II 3G - 2D



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
84	60	10296	8748	Glass	146	+50	On-off	8,60	810430EX
112	97	17227	14356	Glass	148	+40	DALI	8,74	810440EX
140	112	20300	16576	Glass	148	+40	DALI	8,94	810450EX
168	134	24200	19832	Glass	148	+40	DALI	9,31	810460EX



Symmetrical 75° medium beam optics

Included: quick connection for pendant mounting.

Recommended installation height: between 5 m and 8 m.

No. 1 M20 cable gland in technopolymer.

The stated flux and power values may be subject to a +/- 7% tolerance.

II 3G - 2D



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
84	60	10296	8580	Glass	143	+50	On-off	8,60	810431EX
112	97	17227	14065	Glass	145	+40	DALI	8,74	810441EX
140	112	20300	16352	Glass	146	+40	DALI	8,94	810451EX
168	134	24200	19564	Glass	144	+40	DALI	9,31	810461EX



Accessories META150-EX pendant mounting



META150-EX equipped with **bracket for ceiling mounting**

Adjustable bracket for wall, pole and light tower mounting



Material:
Galvanized steel

Code: **810999**

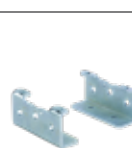
0-90° adjustable catenary wire installation bracket



Material:
Galvanized steel

Code: **810994**

Bracket for double chain and busbar installation



Material:
Galvanized steel

Code: **810997**

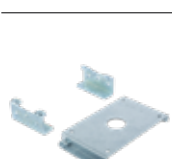
0-90° swivel attachment for double chain and busbar installation



Material:
Galvanized steel

Code: **810996**

Ceiling mounting bracket



Material:
Galvanized steel

Code: **810998**

Bracket for post installation Ø 60 mm



Material:
Galvanized steel

Code: **810995**



Traditional

Painting plants

Metalworking

Woodworking

Food powders

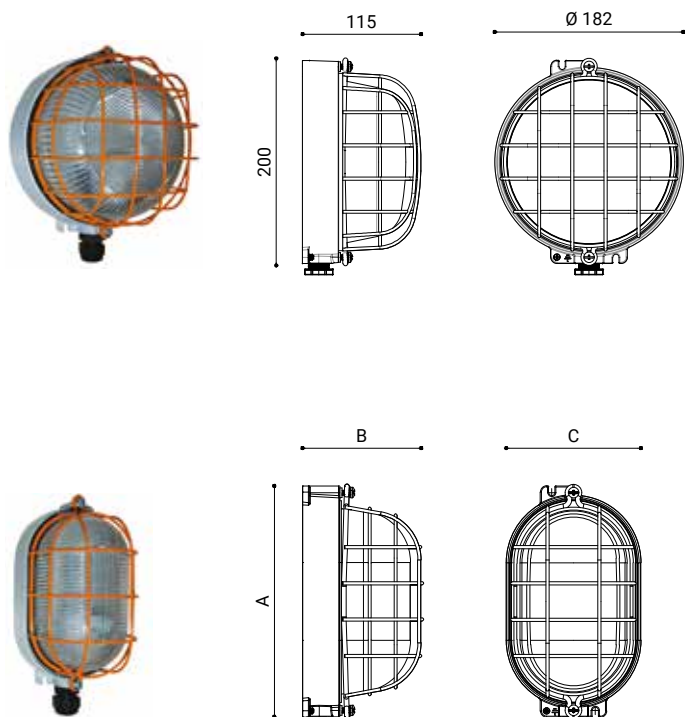
Atex



RINO-EX
E27
zone 22

Page 212

RINO-EX E27 | Zone 22



P max (W)	A (mm)	B (mm)	C (mm)
18	199	119	112
28	226	122	130
53	295	142	170

ATEX Dust execution	II 3D - Ex tc IIIC T 75 °C Dc
Body material	Aluminium alloy
Surface treatment	Fluorozirconate passivation
Diffuser material	Tempered prismatic glass
Protection rating	IP65 as per IEC 60079-0 and 60598-1
Impact resistance	IK07 as per IEC 62262
Mounting system	Prepared for wall installation
Ambient operating temperature	-20 °C - +40 °C
Ambient storage temperature	-40 °C - +70 °C
Lamp holder type	E27 porcelain
Insulation class	I
Supply voltage	230V 50/60Hz
Type of power supply	Spring clamps and cable glands M20
Max. conductor cross-section	2,5 mm ²
Entry cable diameter	10÷14 mm



DIRECTIVES

2014/34/EU (ATEX)
2011/65/EU (RoHS)
2012/19/EU (RAEE)

PRODUCT STANDARDS

EN 60079-0
EN 60079-31
EN 60598-1
EN 60598-2-1
EN 63000

RINO-EX E27 | Zone 22



E27

IP65

II 3D
Aluminium alloy

Power (W)	Lamp holder	Inputs No.	Version	Weight (Kg)	Code
18	E27	1	On - off	0,92	831072EX
28	E27	1	On - off	1,28	831172EX
53	E27	1	On - off	2,23	831272EX

II 3D
Aluminium alloy

Power (W)	Lamp holder	Inputs No.	Version	Weight (Kg)	Code
28	E27	1	On - off	0,94	830072EX