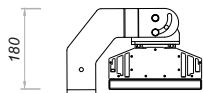
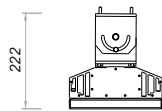


phEvo **INDUSTRIA-V**

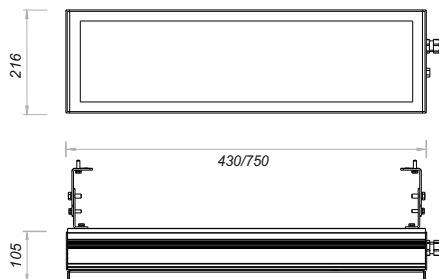
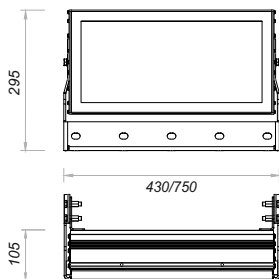
INNOVATION, EFFICIENCY & ENERGY SAVING



Pole/Wall attachment



Ceiling attachment



MAIN CHARACTERISTICS

Applications	Industrial lighting
Color	RAL 9005(Nero) o RAL 9007(Grigio)
Material	Anodized extruded aluminum dissipating body, AISI 304 stainless steel bracket, accessories painted in polyester powder.
Dimension	430mm x 216mm x 105mm phEvoINDUSTRIA-V 12, 16, 24, 36, 48, 60 LED (350mA) 750mm x 216mm x 105mm phEvoINDUSTRIA-V 72, 96, 120, 144 LED (350mA) 430mm x 216mm x 105mm phEvoINDUSTRIA-V 12, 24 LED (700mA) 750mm x 216mm x 105mm phEvoINDUSTRIA-V 48, 64 LED (700mA)
Weight	8.0 Kg 18.0 Kg
Exposed surface	front. 0.093/0.162 m ² - lat. 0.022 m ²
Protection degree	IP 66 IK08
Insulation class	II
Mounting	pendant mounting - wall mounting - pole mounting
IPEA	≥ A++ (C.A.M.)
N° LED	From 12 to 144 LED
LED Efficacy⁽¹⁾	201 lm/W - CRI 70 - @ 360 mA, T _j = 25 °C
Color temperature	3000K - 730/669 4000K - 740/669 5700K - 757/669
Optics	2X2 PMMA
Optical unit lifetime⁽²⁾	≥ 100.000hr
Rated voltage	220-240 V~ 50/60 Hz
Power factor	cosφ ≥ 0.98 (at full load)
Surge protection (dif/com)	6/10 kV
TC adjustment system (on request)	1-10V o DALI
Programming (on request)	On-site driver reprogramming through NFC and related app.
Dimming	Optional module for seasonal, weekly, and daily dimming.
Operating temperature	-40 / +55 °C



DESCRIPTION

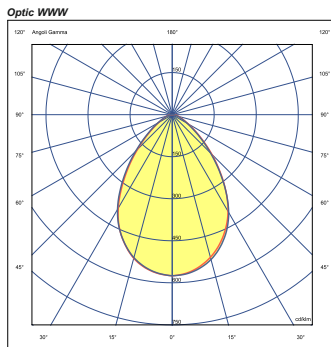
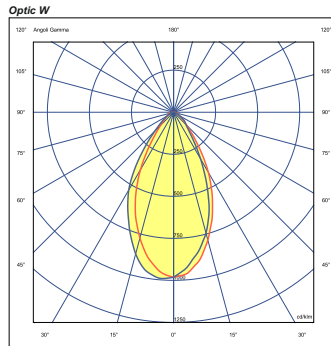
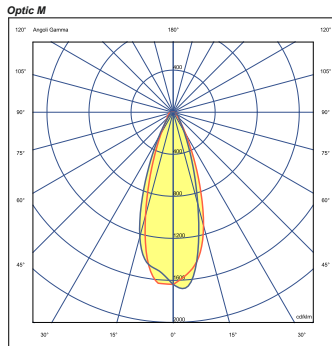
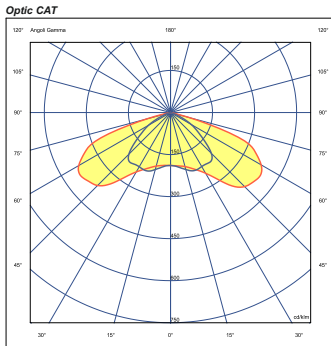
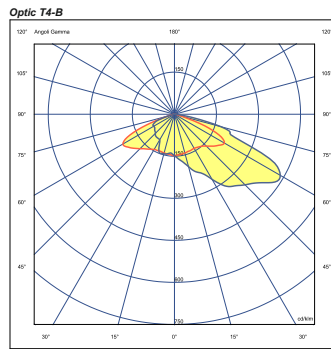
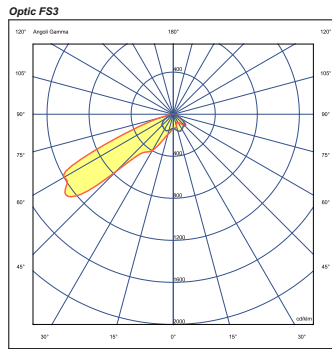
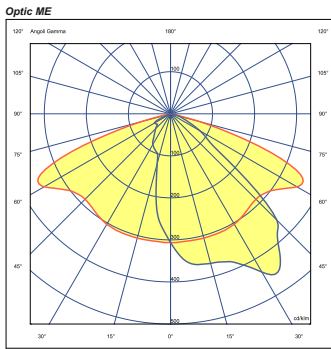
Tunnel lighting fixture made up of a corrosion-resistant extruded aluminum heatsink and 5mm impact-resistant tempered glass IK08. 2x2 optics in PMMA/PC guaranteed against UV rays and yellowing. Surge protection device up to 10kV. Body insulation class II, IP66 and IK08. Class II internal wiring and connections. Anti-condensation valve. Bolts and fasteners in AISI 304. Anchoring system to the duct with quick coupling. The internal components are replaced using the most common tools. Power supply, plate and any remote control (optional) interconnected via double-insulated single-core rubberized cables. Power supply with nominal voltage 220-240 Vac, frequency 50/60 Hz. Efficiency ≥90% at full load, power factor cosφ0.95. 1-10V or DALI dimming system (optional). LED useful life>100,000 hours L90B10. Energy performance ≥A++. Color from 2200k to 5700k, CRI80. Luminaire efficiency up to 150lm/W. CE certification.

Main Reference Standards

EN 60598-1: Luminaires - Part 1: General requirements and tests
 EN 60598-2-5 Floodlights
 IEC/TR 62778: Application of IEC 62471 for the assessment of blue light hazard to light sources and luminaires
 EN 55015: Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
 EN 61000-3-2: Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions.
 EN 61000-3-3: Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems
 EN 61547: Equipment for general lighting purposes - EMC immunity requirements
 EN 13032-1: Light and lighting - Measurement and presentation of photometric data of lamps and luminaires - Part 1: Measurement and file format.
 Datasheet according to IEC/PAS 62717 - IEC/PAS 62722



OPTICS



Photometric curves performed in the PHAENOMENA photometric laboratory.
 NOTE: Other photometries are available on request. Photometric curves performed in the PHAENOMENA photometric laboratory.

3000/4000/5700K

Model	Led Current(mA)	Rated Luminaire Power(W)	Rated Led Flux (lm) ⁽³⁾	Luminaire Efficacy [lm/W] ⁽⁴⁾	Efficienza[Lm/W]
phEvoINDUSTRIA12-V	350	26,3	4650	3953	150
phEvoINDUSTRIA16-V		35,1	6200	5270	
phEvoINDUSTRIA24-V		52,7	9300	7905	
phEvoINDUSTRIA36-V		79	14000	11900	
phEvoINDUSTRIA48-V		105,3	18700	15895	
phEvoINDUSTRIA60-V		131,7	23300	19805	
phEvoINDUSTRIA72-V		159	28100	23885	
phEvoINDUSTRIA96-V		212	37500	31875	
phEvoINDUSTRIA120-V		265	46900	39865	
phEvoINDUSTRIA144-V		318	56200	47770	
phEvoINDUSTRIA12-V	700	57	8800	7480	131
phEvoINDUSTRIA24-V		114	17700	15045	
phEvoINDUSTRIA48-V		228	35200	29920	
phEvoINDUSTRIA64-V		304	47000	39950	

NOTE: Values indicated in this technical sheet are to be considered rated values. Flux tolerance +/- 10%. Power Tolerance: +/- 10%

Rated led Flux according to LED GW P9LR35.PM(G5) IN M5 - A

⁽¹⁾ LED source efficiency according to LED datasheet.

⁽²⁾ Lifetime according to LM-80_DURIS S 8 - GW P9LR35.PM_4000K_600mA_6000h_180260W1.

⁽³⁾ Values measured in the laboratory with ME optics

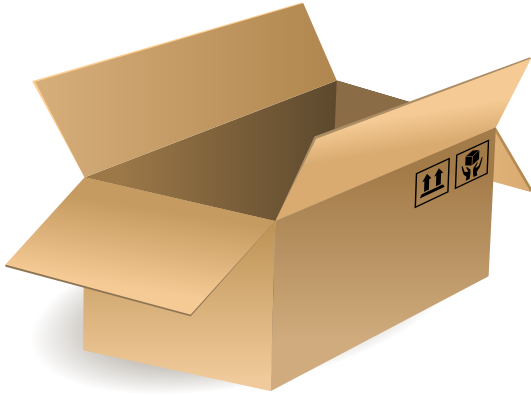
⁽⁴⁾ Values extrapolated from the LED manufacturer datasheet.

The characteristics of the product listed above are subjected to change without notice.

Errors and omissions excepted. Always ensure to use the most up-to-date version. The

listed product specifications are subject to change and will be confirmed at the time of ordering

PACKAGING



Dimensions: 500x270x150 mm
Weight: 8 Kg

Dimensions: 800x270x150 mm
Weight: 18 Kg

DESIGN



phEvo INDUSTRIA-IP

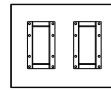
INNOVATION, EFFICIENCY & ENERGY SAVING



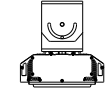
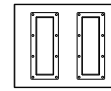
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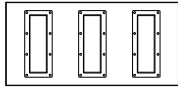
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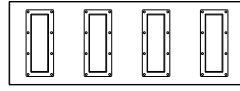
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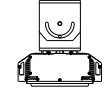
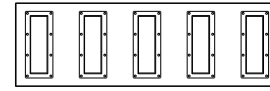
phEvoINDUSTRIA-IP 24



phEvoINDUSTRIA-IP 36



phEvoINDUSTRIA-IP 48



phEvoINDUSTRIA-IP 60

MAIN CHARACTERISTICS

Applications	Lighting large areas, industrial buildings
Color	RAL9005 (black), RAL9007 (gray)
Material	Powder-coated carbon steel frame with heat sink in anodised aluminium
Protection degree	IP 66 IK06 (IK08 available on request)
Insulation class	I (II available on request)
Mounting	ceiling mounting - pendant mounting - wall mounting.
IPEA	≥ A++ (C.A.M.)
N° LED	da 8 a 60 LED
LED Efficacy⁽¹⁾	187 lm/W - CRI 70 - @ 350 mA, T _j = 25 °C
Color temperature	3000K - 730/669 4000K - 740/669 5700K - 757/669
Optics	IP type made of PMMA - PC - SILICONE
Optical unit lifetime⁽²⁾	≥ 100.000hr
Rated voltage	220-240 V~ 50/60 Hz
Power factor	Cosφ ≥ 0.98 (at full load)
Surge protection (dif/com)	6/10 kV
TC adjustment system (on request)	0-100%, 0-10V signal, PWM, DALI, AstroDIM, MainsDIM, Wireless
Programming (on request)	On-site driver reprogramming through NFC and related app
Dimming	Optional module for seasonal, weekly, and daily dimming
Operating temperature	-40 / +55 °C



DESCRIPTION

Projector made of lightweight, anodised, corrosion and weather-resistant extruded aluminium. Powder-coated carbon steel frame. PMMA/PC optics IP66 and IK06 (IK08 on request) guaranteed against UV rays and yellowing. Overvoltage protection up to 6kV. Body insulation class I (II on request). Anti-condensation valve. AISI 304 bolts. Components can be replaced using the most common tools (only by authorised personnel). Support device with bracket system adjustable using common tools. Mains connection via external cable with IP68 connector. Power supply unit, external IP67 connected via three-pole double-insulated rubberised cables. Power supply with nominal voltage 220-240 Vac, frequency 50/60 Hz. Efficiency ≥90% at full load, power factor cosφ0.95. LED service life >100,000 hours L90B10. Energy performance ≥A++. Colour from 2200k to 5700k, CRI>70. Luminaire efficiency up to 144 lm/W.

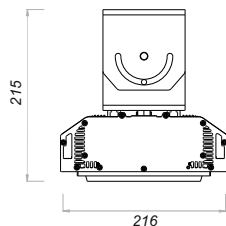
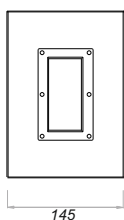
Main Reference Standards

- EN 60598-1: Luminaires - Part 1: General requirements and tests
- EN 60598-2-5 Floodlights
- IEC/TR 62778: Application of IEC 62471 for the assessment of blue light hazard to light sources and luminaires
- EN 55015: Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
- EN 61000-3-2: Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions.
- EN 61000-3-3: Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems
- EN 61547: Equipment for general lighting purposes - EMC immunity requirements
- EN 13032-1: Light and lighting - Measurement and presentation of photometric data of lamps and luminaires - Part 1: Measurement and file format.
- Datasheet according to IEC/PAS 62717 - IEC/PAS 62722



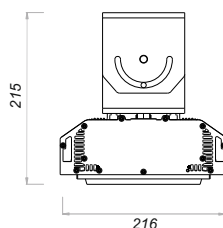
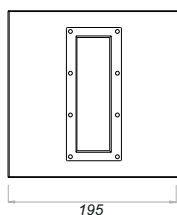
phEvoINDUSTRIA-IP

INNOVATION, EFFICIENCY & ENERGY SAVING



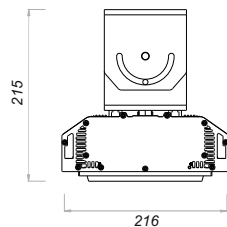
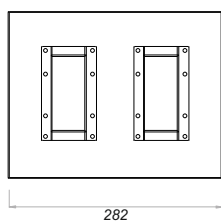
phEvoINDUSTRIA-IP8

Dimensions	216x145x215mm
Max Weight	6.00 Kg
Max wind-exposed surface	front. 0.032 m ² - lat. 0.017 m ²



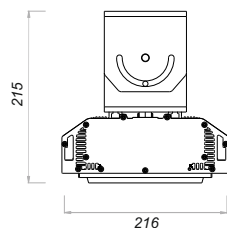
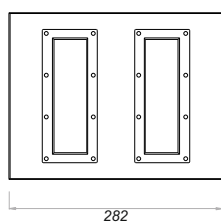
phEvoINDUSTRIA-IP12

Dimensions	216x195x215mm
Max Weight	6.00 Kg
Max wind-exposed surface	front. 0.042 m ² - lat. 0.017 m ²



phEvoINDUSTRIA-IP16

Dimensions	216x282x215mm
Max Weight	6,00 Kg
Max wind-exposed surface	front. 0.061 m ² - lat. 0.017 m ²



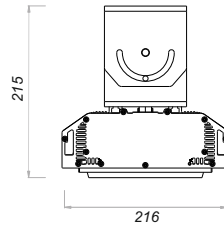
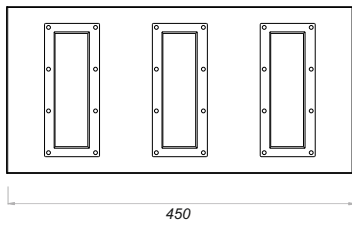
phEvoINDUSTRIA-IP24

Dimensions	216x282x215mm
Max Weight	6,00 Kg
Max wind-exposed surface	front. 0.061 m ² - lat. 0.017 m ²



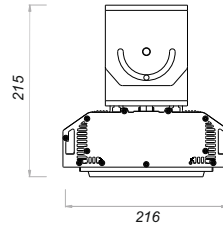
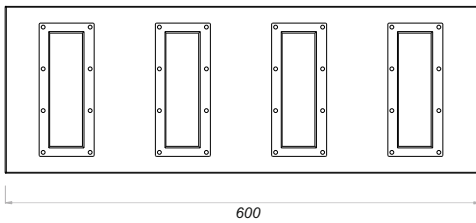
phEvoINDUSTRIA-IP

INNOVATION, EFFICIENCY & ENERGY SAVING



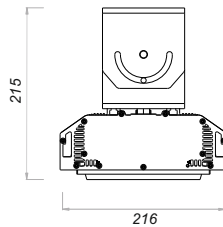
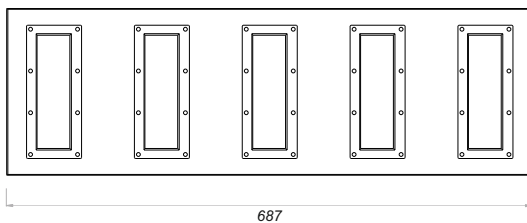
phEvoINDUSTRIA-IP36

Dimensions	216x450x215mm
Max Weight	8,50 Kg
Max wind-exposed surface	front. 0.09 m ² - lat. 0.017 m ²



phEvoINDUSTRIA-IP48

Dimensions	216x600x215mm
Max Weight	13.00 Kg
Max wind-exposed surface	front. 0.13 m ² - lat. 0.017 m ²

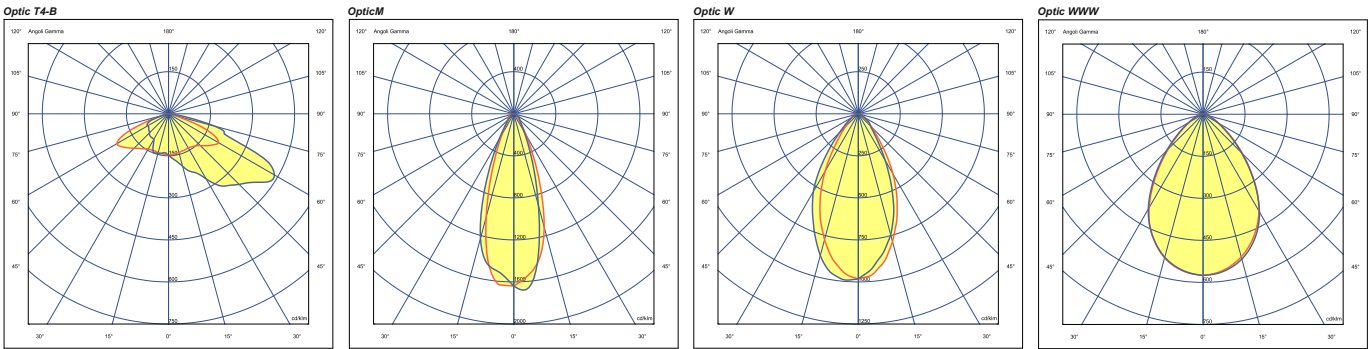


phEvoINDUSTRIA-IP60

Dimensions	216x687x215mm
Max Weight	13.50 Kg
Max wind-exposed surface	front. 0.15 m ² - lat. 0.017 m ²



OPTICS



3000/4000K

Model	Led Current(mA)	Rated Luminaire Power(W)	Rated Led Flux (lm) ⁽¹⁾	Rated Luminaire Flux (lm) ⁽³⁾	Luminaire Efficacy [lm/W]
phEvoINDUSTRIA-IP8	700	38	5850	5441	144
phEvoINDUSTRIA-IP12		57	8800	8184	
phEvoINDUSTRIA-IP16		76	11700	10881	
phEvoINDUSTRIA-IP24		114	17600	16368	
phEvoINDUSTRIA-IP36		171	26400	24552	
phEvoINDUSTRIA-IP48		228	35200	32736	
phEvoINDUSTRIA-IP60		285	44000	40920	

phEvoINDUSTRIA-IP 12 / 40 / 700 / T4-B

- Product Series
- Number of Leds
- Light temperature
- Current
- Optic

NOTE: The values indicated in this sheet are nominal, to be considered with a tolerance of +/- 10%.
 The minimum value emitted by the LED GW P9LR35.PM(G5) IN M5 - A has been considered for the rated luminous flux.
⁽¹⁾ Efficiency extrapolated from the LED manufacturer datasheet.
⁽²⁾ Service life according to report LM-80_DURIS S 8 - GW P9LR35.PM_4000K_600mA_6000h_180260W1.
⁽³⁾ Values measured in the laboratory at Ta = 25 °C.
⁽⁴⁾ Values extrapolated from the LED manufacturer datasheet.
 In order to promote the constant updating of its products, Phaenomena reserves the right to make changes without prior notice.
 Errors or omissions excepted.
 Always make sure to use the latest version. The product features listed are subject to change and will be confirmed when ordering.

Photometric curves performed in the PHAENOMENA photometric laboratory.
 NOTE: Other photometries are available on request. Photometric curves performed in the PHAENOMENA photometric laboratory.

PACKAGING



Dimensions: Custom
Weight: from 6 kg to 15 kg

DESIGN

