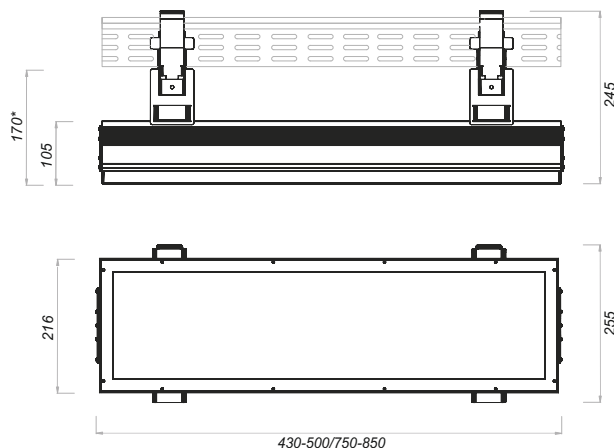


# phEvoTUNNEL

INNOVATION, EFFICIENCY & ENERGY SAVING

**Ph**  
Phaenomena



\*Conduit intrados

## Main Characteristics

<b>Applications</b>	Tunnel Floodlight
<b>Color</b>	Anthracite
<b>Material</b>	Anodized extruded aluminum dissipating body, AISI 304 stainless steel bracket, accessories painted in polyester powder.
<b>Dimension</b>	430mm x 216mm x 105mm phEvoTUNNEL 16, 24, 36, 48, 60 LED (350mA) 750mm x 216mm x 105mm phEvoTUNNEL 72, 96, 120, 144 LED (350mA) 500mm x 216mm x 105mm phEvoTUNNEL 16, 24, 36, 48, 60, 72 LED (250mA) 850mm x 216mm x 105mm phEvoTUNNEL 96, 120, 144, 192, LED (250mA)
<b>Weight</b>	8.0 Kg   18.0 Kg
<b>Security system</b>	Stainless steel safety chain between the projector and track**
<b>Exposed surface</b>	front. 0.093/0.162 m <sup>2</sup> - lat. 0.022 m <sup>2</sup>
<b>Protection degree</b>	IP 66   IK08
<b>Insulation class</b>	II
<b>Mounting</b>	Suspension or cable tray mounting
<b>N° LED</b>	From 16 to 192 LED
<b>LED Efficacy<sup>(1)</sup></b>	187 lm/W - CRI 80 - @ 360 mA, T <sub>j</sub> = 25 °C
<b>Colour temperature</b>	3000K - 730/669   4000K - 740/669   5700K - 757/669
<b>Optics</b>	2X2 PMMA
<b>Optical unit lifetime<sup>(2)</sup></b>	≥ 100.000hr
<b>Rated voltage</b>	220-240 V~ 50/60 Hz
<b>Power Factor</b>	Cosφ ≥ 0.98 (at full load)
<b>Surge protection (dif/com)</b>	8/10 kV
<b>TC adjustment system (on request)</b>	1-10V or DALI
<b>Programming</b>	On-site driver reprogramming through NFC and related app.
<b>Dimming</b>	Optional module for seasonal, weekly, and daily dimming.
<b>Operating temperature</b>	-40 / +55°C

\*\* On request



## 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 155lm/W. CE and ENEC certification

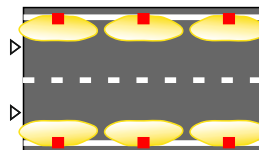
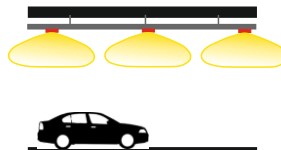
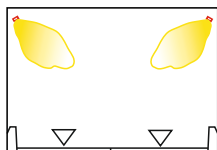
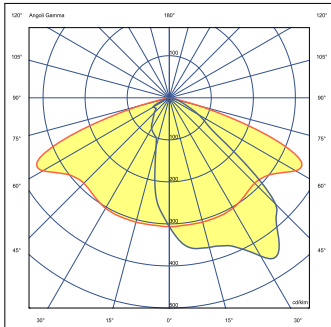
## Main Reference Standards

EN 60598-1: Luminaires - Part 1: General requirements and tests  
EN 60598-2-3: Luminaires - Part 2-3: Particular requirements - Luminaires for road and street lighting  
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 IEC/PAS 62717 - IEC/PAS 62722



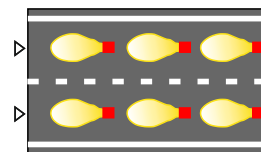
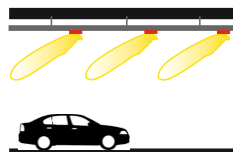
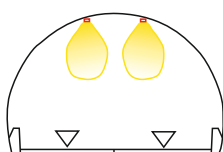
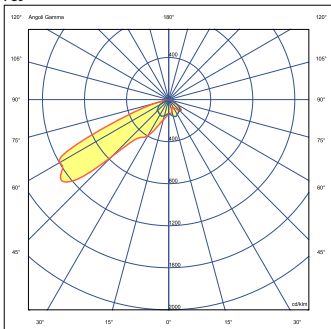
## ASYMMETRIC

ME



*Optics suitable for symmetric installation for reinforcement and permanent devices*

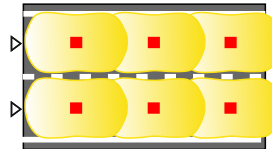
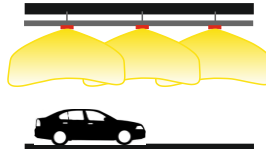
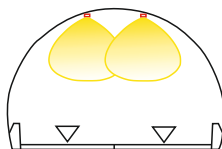
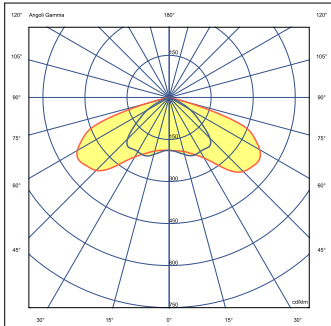
FS3



*Optics used for counterflow and symmetric installation types for reinforcement devices*

## SYMMETRIC

CAT



*Optics used for counterflow symmetric and proflow installation types for reinforcement and permanent devices*

3000/4000/5700K

Model	Led Current(mA)	Rated Luminaire Power(W)	Rated Led Flux (lm) <sup>(4)</sup>	Rated Luminaire Flux (lm) <sup>(3)</sup>	Luminaire Efficacy [lm/W]
phEvoTUNNEL16	250	24,2	4414	3752	155
phEvoTUNNEL24		36,3	6621	5628	
phEvoTUNNEL36		54,5	9941	8450	
phEvoTUNNEL48		72,6	13243	11257	
phEvoTUNNEL16	350	36,9	6512	5600	152
phEvoTUNNEL24		52,7	9050	7783	
phEvoTUNNEL36		79,0	13649	11738	
phEvoTUNNEL48		105,3	17716	15236	
phEvoTUNNEL60		131,7	22094	19001	
phEvoTUNNEL72		159,0	27628	23760	
phEvoTUNNEL96		212,0	35351	30402	
phEvoTUNNEL120		265,0	44956	38662	
phEvoTUNNEL144		318,0	52065	44776	

phEvoTUNNEL 16 / 40 / 350 / CAT

- Series
- LED Number
- Color temperature
- Led Current
- Optic

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

<sup>(1)</sup> LED source efficiency according to LED datasheet.

<sup>(2)</sup> Lifetime according to LM-80\_DURIS S 8 - GW P9LR35.PM\_4000K\_600mA\_6000h\_180260W1.

<sup>(3)</sup> Values measured in the laboratory at Ta = 25 °C.

<sup>(4)</sup> 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



Dimension: 500x270x150 mm  
Weight: 8 Kg

Dimension: 800x270x150 mm  
Weight: 18 Kg

## DESIGN

