





“MORE LIGHT,  
GIVE ME MORE LIGHT.”

GOETHE

\*This quote from Goethe has been very meaningful, not just for us, but perhaps for the rest of the world. We always need more lighting in life.

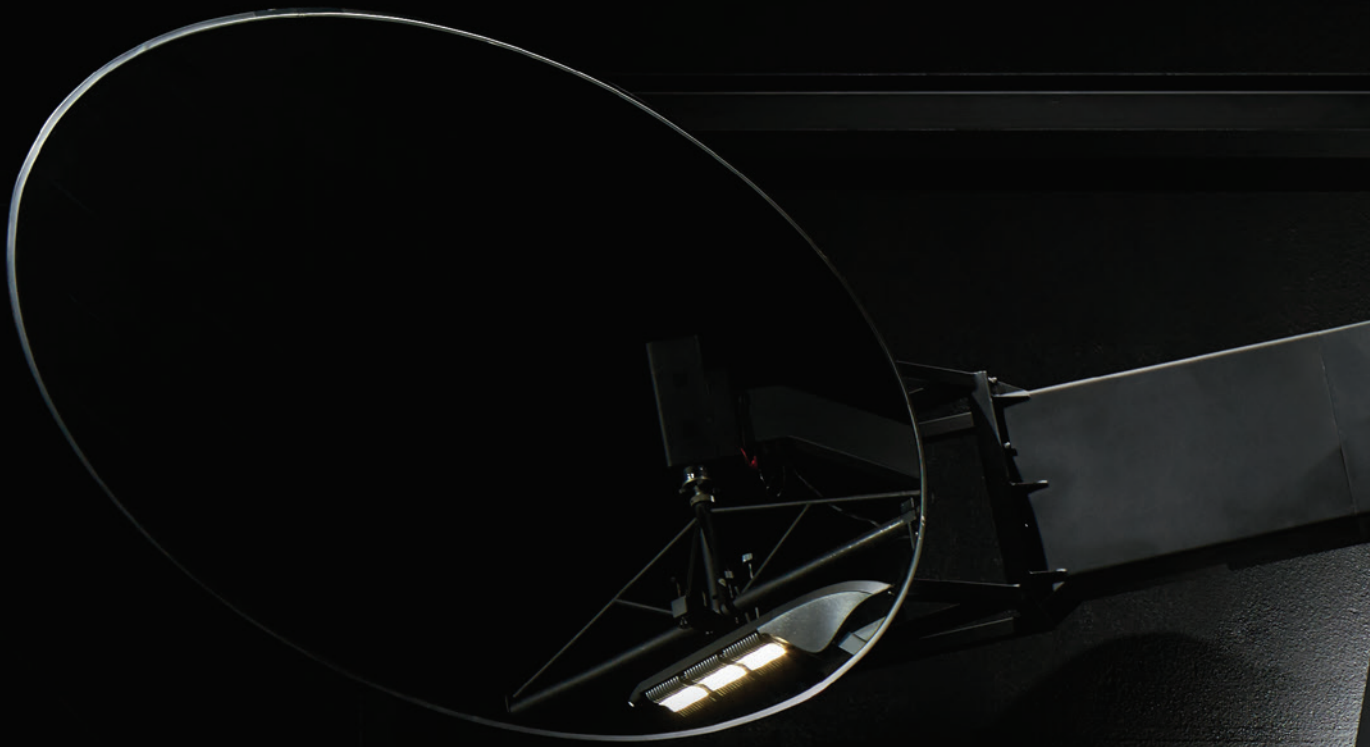
We believe that lighting is not limited to the living space of those who use our products. We aim to enlighten our customers and open up new horizons for those who prefer us. We believe that maybe then we will make our contribution, no matter how small, to the enlightenment that Goethe talks about.



# MORE HISTORY

Our story started in 1996 when we fell in love with light. The family run company which we established to develop products for efficient lighting, expanded in time creating the trade names, Heper and Moonlight. With constant innovations that we bring to the market, Heper Group became an important international player for the outdoor lighting field with business partners in 80 different countries worldwide.





# MORE PERFORMANCE

The world is rapidly changing. We have been developing products which are up-to-date and ready for long lasting operation with the generous helping hand of Bartenbach since many years. Today we are proud of HEPER light laboratory which allows us to test and apply the latest world standards.





# MORE INNOVATION

We ask ourselves the question 'How should be the lighting of the modern era?' every day. Respect towards the individual, the society and nature are an inseparable part of our job. Accordingly, we implement the meticulousness in our design, manufacturing and management approaches in each and every one of our processes; because we are designing the future.



## 'LIGHT AND CHARGE' PROJECT

Having been a solution partner in the Light and Charge project developed by eluminocity and co-designed with BMW for electric cars, creating solutions for the world's future brings us one step closer to our goals. As Heper, we achieved the mission: to successfully co-design and manufacture the lighting products in the project.

Light and Charge is a significant step for our future. Heper and eluminocity's engineers developed an extraordinary lighting fixture by working together. The new generation of electric cars will be able to be charged by charge sockets as these lighting fixtures are illuminating the streets.





# MORE QUALITY

Design and technology are the main materials we use in order to achieve higher performance. Thanks to the standard durability tests we perform, we produce long-lasting products resistant to external environmental conditions, physical impacts and chemical factors.





MORE  
SOLUTIONS

Thanks to the flexible nature of Heper, we are able to react quickly and create boutique solutions to add value to the architectural details.



We believe that every single Heper product is an engineering marvel with their high technical capacity and efficiency. The brand Heper comprises road, tunnel, landscape and facade lighting products with minimalistic and futuristic designs.



Moonlight is easily distinguished with its tailor made look in harmony with the architecture. Our decorative Moonlight brand consists of external lighting products.



Alcopole represents the emphasis we put on the world and the environment with its recyclability. Our green brand Alcopole consists of aluminum lighting poles.





# MORE CONTROL

In our age, lighting is a systematic solution. It is an important part of our work to control our products accordingly to the needs of the project by making use of lighting control systems which are improving. The products under the brand of HEPER have already been working in a harmony with all modern control systems. Besides, we can find customized solutions and present them which are consistent with different control systems based on the project thanks to our experienced engineers.

Optional

DALI  
1-10V  
AstroDIM  
StepDIM  
DynaDIM

On Request

RF  
Zigbee  
GSM / GPRS - Dual Band





# MORE TECHNOLOGY

Our products that are manufactured and created meticulously by our designers are produced using high-tech, high-quality components. Every single feature that our products have, is the product of our perennial research and development efforts. All this is to design and bring the next-generation technologies into our lives.





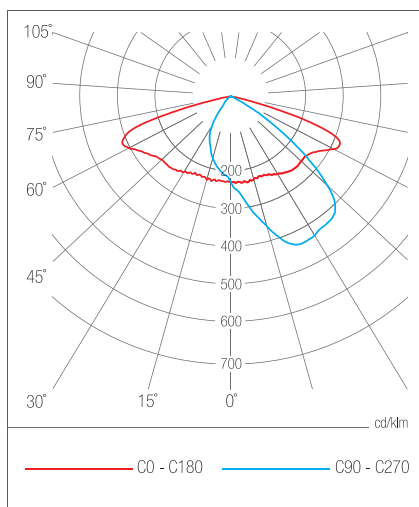


## MILESTONE® - Perfect performance

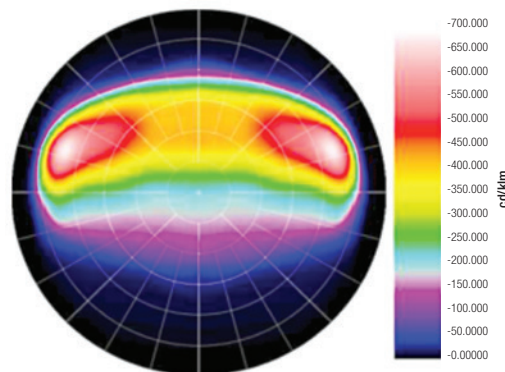
MILESTONE® has a patented unique complex surface reflector technology designed to be used for/in different types of road classification like ME1, ME2, ME3 and ME4 by increasing the number of modules used on fixtures. Modular system also meets specific needs such as street lighting, highway applications and tunnel lighting.

The reflector used inside MILESTONE® has a special coating for higher reflectivity and for a longer lifetime with maximum performance. The module has two kinds of special coating: standard aluminum and optional silver. The Silver coating has a superior feature in terms of high reflectivity, durability and mechanical resistance.

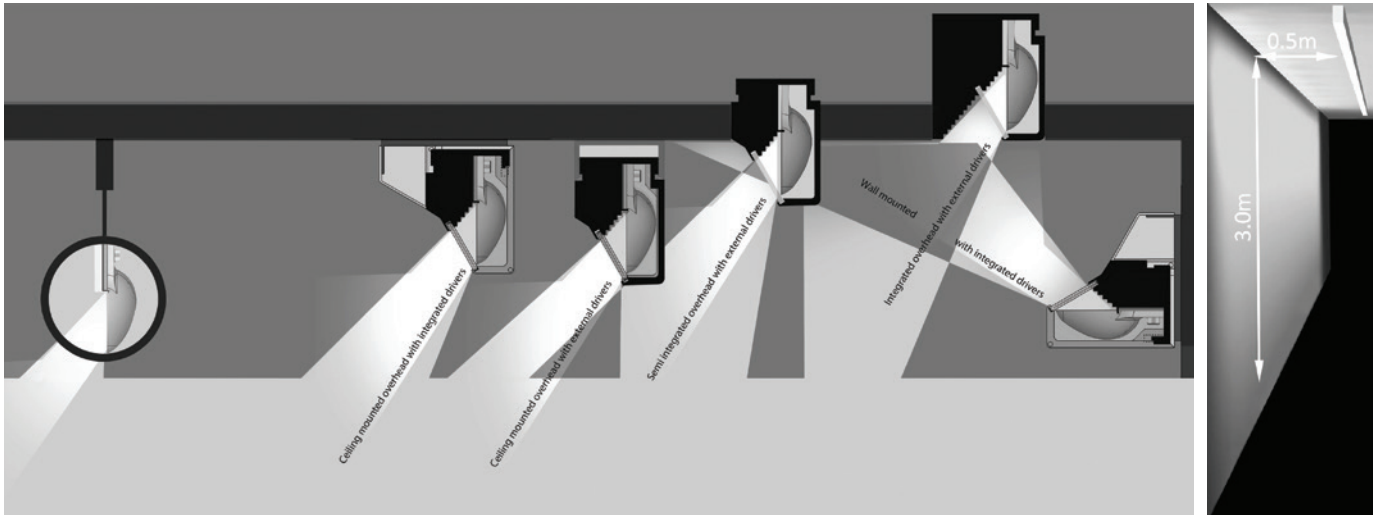
The placement of modules in different numbers and positions provides symmetrical or asymmetrical light distribution. MILESTONE® has a perfect glare control system by using light indirectly with the multifaceted reflector.



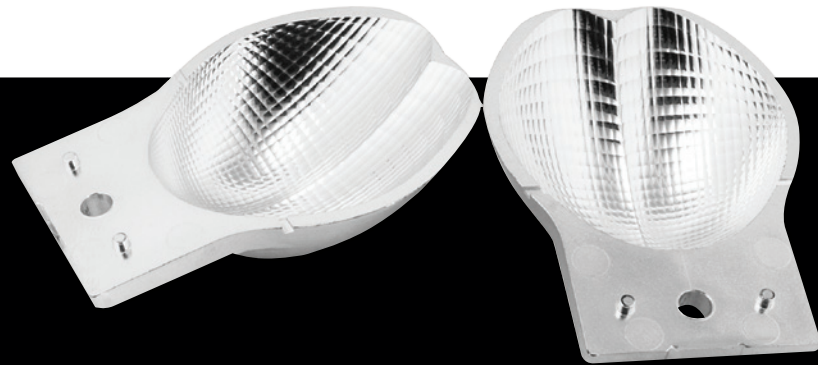
Optimized Road Light Distribution



False Color Rendering



Illuminance distribution on the ceiling and wall with the portion 1/6



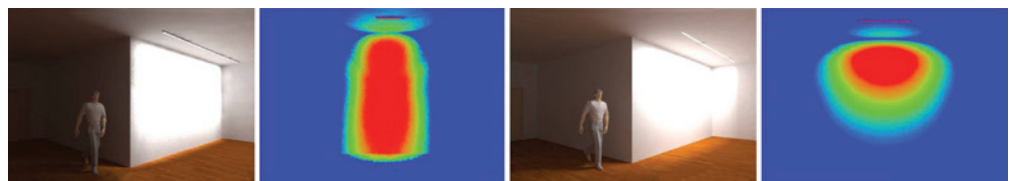
## DYNO - Perfect linear form

DYNO LED module; has unique lighting distribution thanks to its complex multifaceted reflector design including longitudinal glare control (optimized cut-off), excellent uniformity with the highest consistency of constant illuminance within defined field.

The lighting distribution of the module is very smooth and in linear form without spot effect. Forward through distribution allows throwing the light 1x distance in the horizontal position and 6x distances in the vertical position.

The light beam is precisely calculated and defined. In order to obtain dynamic white lighting, two different color temperatures from the same light source should be used. Moreover, DYNO is more suitable for UV sensitive environments like historical places, monuments, paintings since it does not emit any UV beams.

Comparison wallwasher with longitudinal glare control DYNO to conventional system.



DYNO - Longitudinal Glare Control

Conventional System



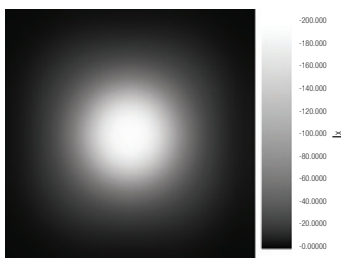
## HYBRID - Perfect beam control

HYBRID is a specially designed optical system which combines the reflector with an additional lens which provides several advantages compared to the classical approach.

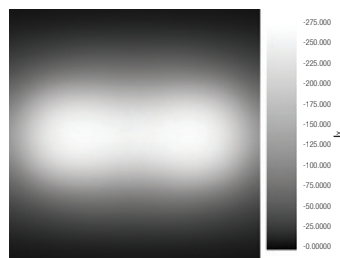
With HYBRID, you can have absolute control over light beam perfect glare control and high efficiency, all combined in one system.

Narrow or medium beam light distribution, increased efficiency by controlling all the light beam and minimized luminance in the cut-off area are just some of the superior features of the Heper's HYBRID system.

HYBRID products have optional radiation characteristic through the combination of different ancillary lenses. The system is applicable for accented lighting, secondary luminaires, facade illumination and ambient lighting.



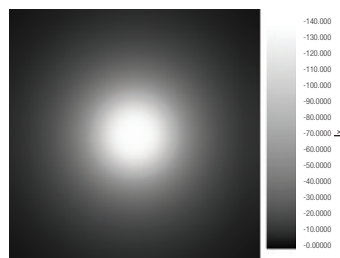
0% scattering



0% scattering with secondary coverglass



5% scattering



20% scattering



## FLEXO - Perfect flexibility

We always use the latest technology in order to keep up with the new developments. With our FLEXO products, it's just a matter of an additional lens in order to change the beam angle or Color Temperature (CCT) of the luminaire.

In addition to that, to be able to give the end user a better experience with light, you can choose to use a Honeycomb accessory. No more glare.

**ELUMINOCITY L&C 024**



**D-LIGHT 030**



**D-LIGHT L 034**



**C-LIGHT 040**



**IN-LIGHT 044**



**T-LIGHT 048**



**OLIVA 058**



**SOLE 064**



**RHINO 070**



**WINGS 074**



**TILA 080**



**TILA S 084**



**DOMINO 088**



**TOLENA 094**



**KREIS 100**



**TERRA 106**



**URBAN UNITS 112**



**VESTA 120**



**POLSO 126**



**NORMA 130**



**DOMINI** 136



**LENA** 140



**DRAGO** 144



**TROLI** 148



**ORION** 152



**VIVA** 160



**DOGO** 164



**TROLA** 168



**DOMI** 172



**PINA** 176



**OTTO** 182



**PUNTO** 188



**VEGA** 192



**ELIPSO** 196



**ZEROX** 202



**DION** 206



**WEDGE** 210



**MINIKA** 214



**MINIMO** 218



**ZETA** 222



**ZETA SS** 226

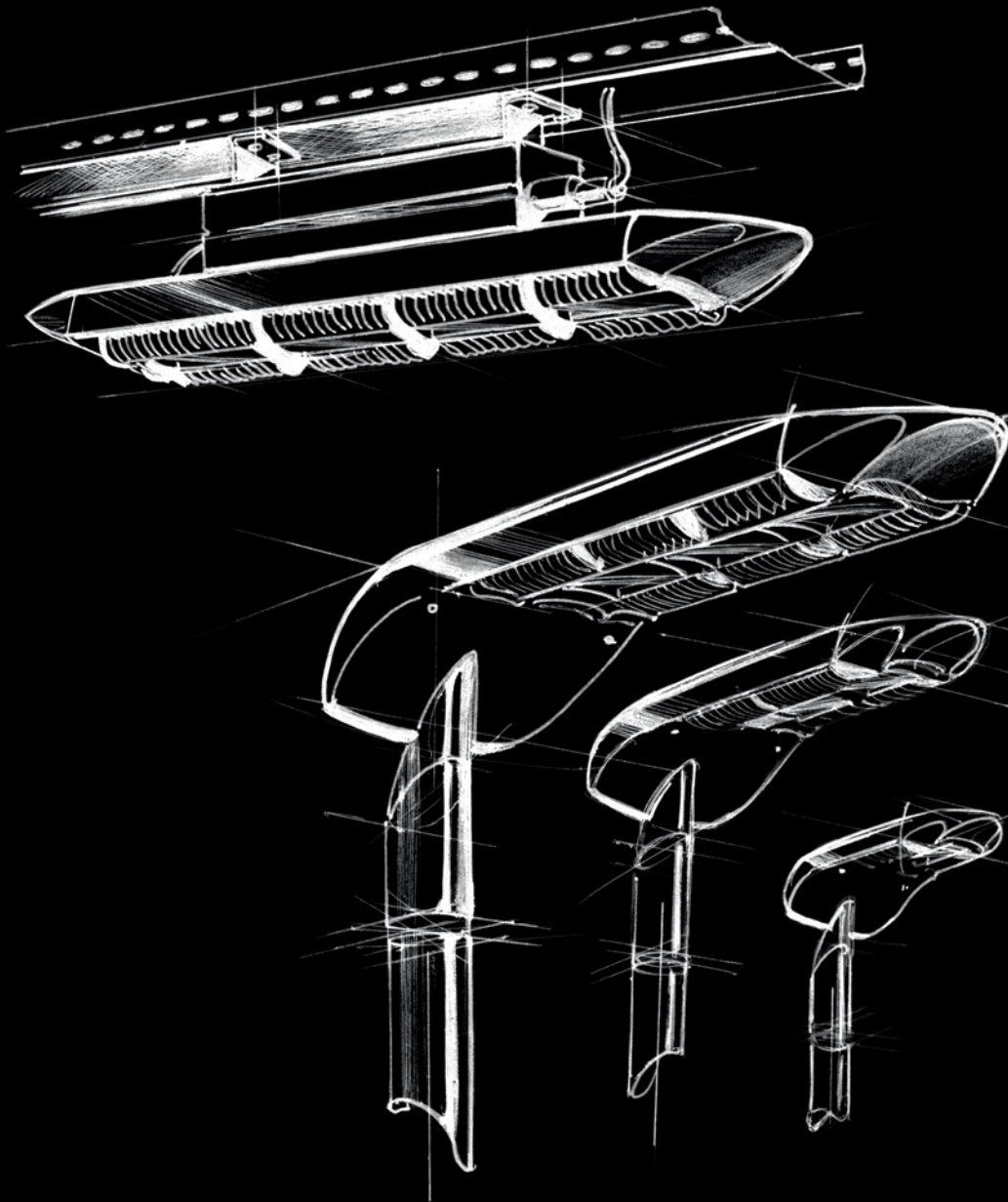


**MOLTO** 230



TECHNICAL





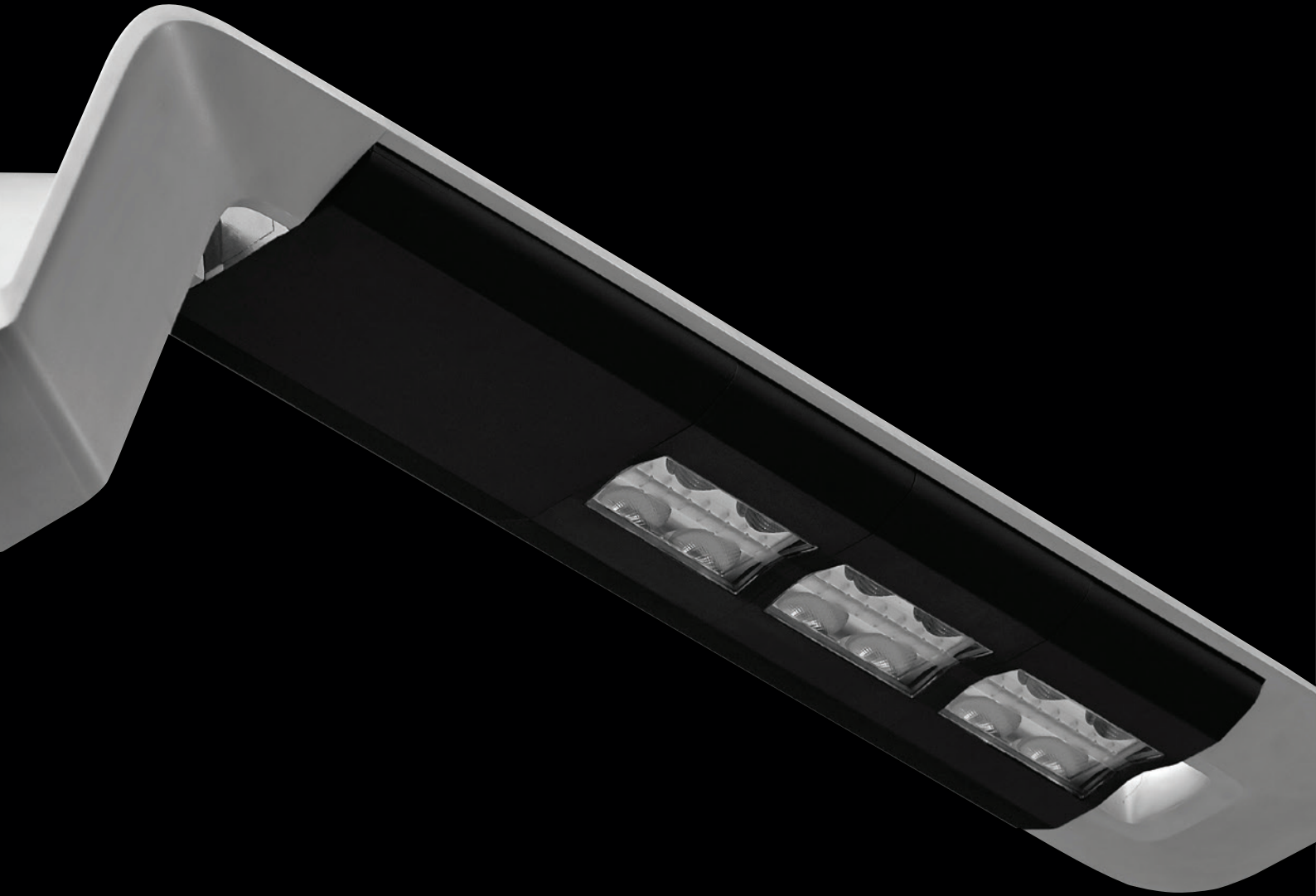
## eluminocity L&C Luminaire\*

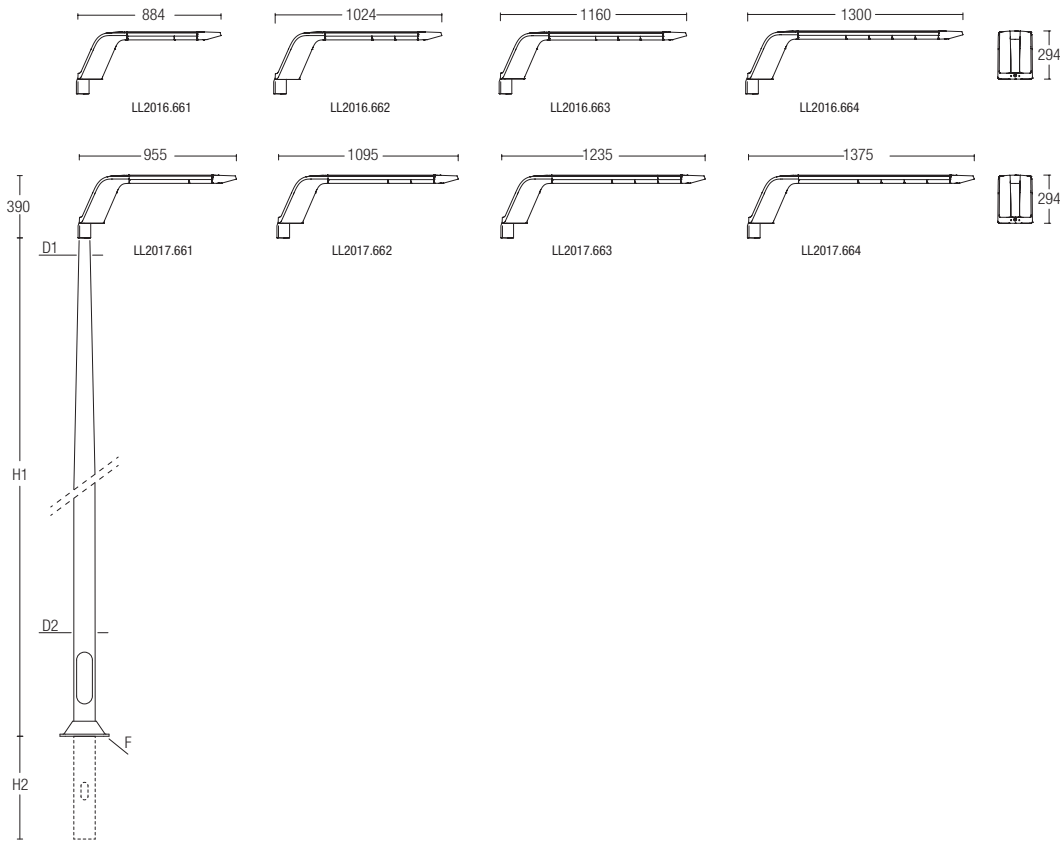
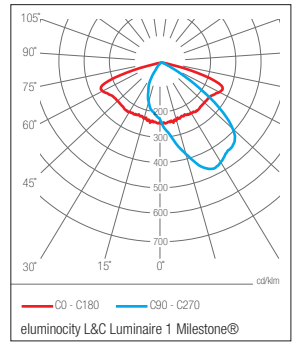
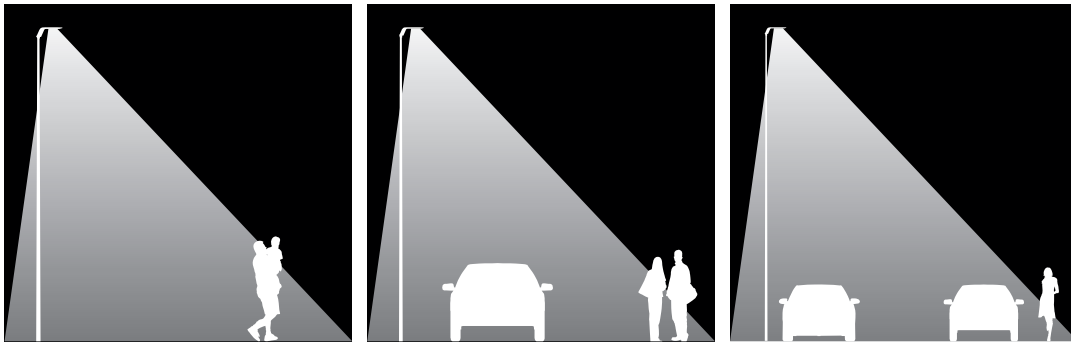
Ideal solution for roads and landscape areas  
Modular structure with L&C LED module  
Luminous flux: from 3400lm up to 16000lm with 1, 2, 3, 4 L&C LED modules  
Color temperature: 3000K, 4000K  
Optimized road light distribution  
Multifaceted micro-reflection system with anti-glare feature  
CRI 4000K > 70, 3000K > 80  
Optimized PCB-Design with Touchdown technology  
Corrosion resistant aluminum housing  
Color: Body RAL9006, Details HM1  
IP66, IK08  
Safety class: standard CLASS I, optional CLASS II  
Surge protection (standard): 10kV  
Operating temperature: -30°C - +55°C  
Complies with European Standards EN 60598, CE, ENEC and UL certified  
Control system (optional): 1-10V

L&C Luminaire Large:  
Optional: DALI  
Optional: RF module or Nema socket for photocell  
Optional: Special Spigot for US Market

\* Supplied and sold by Heper in specific markets. Please contact us for further informations.







**LUMINAIRE**

CODE	DESCRIPTION	POWER	LUMEN	COLOR TEMPERATURE
LL2016.661	eluminocity L&C Luminaire 1 L&C Module	35W	3400lm - 4000lm	3000K / 4000K
LL2016.662	eluminocity L&C Luminaire 2 L&C Module	70W	6800lm - 8000lm	3000K / 4000K
LL2016.663	eluminocity L&C Luminaire 3 L&C Module	105W	10200lm - 12000lm	3000K / 4000K
LL2016.664	eluminocity L&C Luminaire 4 L&C Module	140W	13600lm - 16000lm	3000K / 4000K
LL2017.661	eluminocity L&C Luminaire Large 1 L&C Module	35W	3400lm - 4000lm	3000K / 4000K
LL2017.662	eluminocity L&C Luminaire Large 2 L&C Module	70W	6800lm - 8000lm	3000K / 4000K
LL2017.663	eluminocity L&C Luminaire Large 3 L&C Module	105W	10200lm - 12000lm	3000K / 4000K
LL2017.664	eluminocity L&C Luminaire Large 4 L&C Module	140W	13600lm - 16000lm	3000K / 4000K

**POLES**

CODE	DESCRIPTION	H1	H2	D1	D2	ANCHORAGE	FLANGE COVER	CUT-OUT
PAFK.055.050	Aluminum Conical Pole Flanged	5000	-	Ø60	Ø122	90BJ004	C1D2B	51
PABK.055.050	Aluminum Conical Pole Buried	5000	800	Ø60	Ø122	-	-	51
PAFK.013.060	Aluminum Conical Pole Flanged	6000	-	Ø60	Ø122	90BJ004	C1D2B	51
PABK.013.060	Aluminum Conical Pole Buried	6000	1000	Ø60	Ø122	-	-	51
PAFK.050.060	Aluminum Conical Pole Flanged	6000	-	Ø60	Ø148	90CJ005	C1F2C	51
PABK.050.060	Aluminum Conical Pole Buried	6000	1000	Ø60	Ø148	-	-	51
PAFK.096.080	Aluminum Conical Pole Flanged	8000	-	Ø60	Ø165	90CJ006	C1G2C	51
PABK.096.080	Aluminum Conical Pole Buried	8000	1200	Ø60	Ø165	-	-	51





## LIGHT & CHARGE EV CHARGING STATION\*

Pole mounted charging station for electric vehicles. Supplied and sold by Heper in specific markets. All products are available either equipped with Type 2 Standard (EN 62196-2) or Type 1 shutters (SAE J1772).

Please contact us for further details on the power output options, included feature packages and more mounting variants like wall-mounted and pedestal chargers.

### Customer Authentication

RFID card, mobile phone (QR-code)

### Connector

Type 2, EN 62196-2 or Type 1 (SAE J1772)

### Power output

Single phase 3.68 kW (230 V, 16 A)

Tri-phase 11 kW (400 V, 16 A)

Tri-phase 22 kW (400 V, 32 A)

\* Supplied and sold by Heper in specific markets. Please contact us for further informations.

# D-Light

Ideal solution for roads and landscape areas

Modular structure with Heper's patented Milestone® LED module

Luminous flux: from 3400lm up to 12000lm with 1, 2, 3 Milestone® LED modules

Color temperature: 3000K, 4000K

Optimized road light distribution

Multifaceted micro-reflection system with anti-glare feature

CRI 4000K > 70, 3000K > 80

Optimized PCB-Design; aluminum PCB or FR-4 PCB with touchdown technology

Corrosion resistant aluminum housing

Electrostatic powder coating

Color: standard HM1 to HM5, optional RAL codes

IP66, IK08

Safety class: standard CLASS I, optional CLASS II

Control system (optional): 1-10V, DALI, AstroDIM, DynaDIM

Adjustable bracket tilt angle between  $\pm 15^\circ$

Surge protection (optional): 10kV

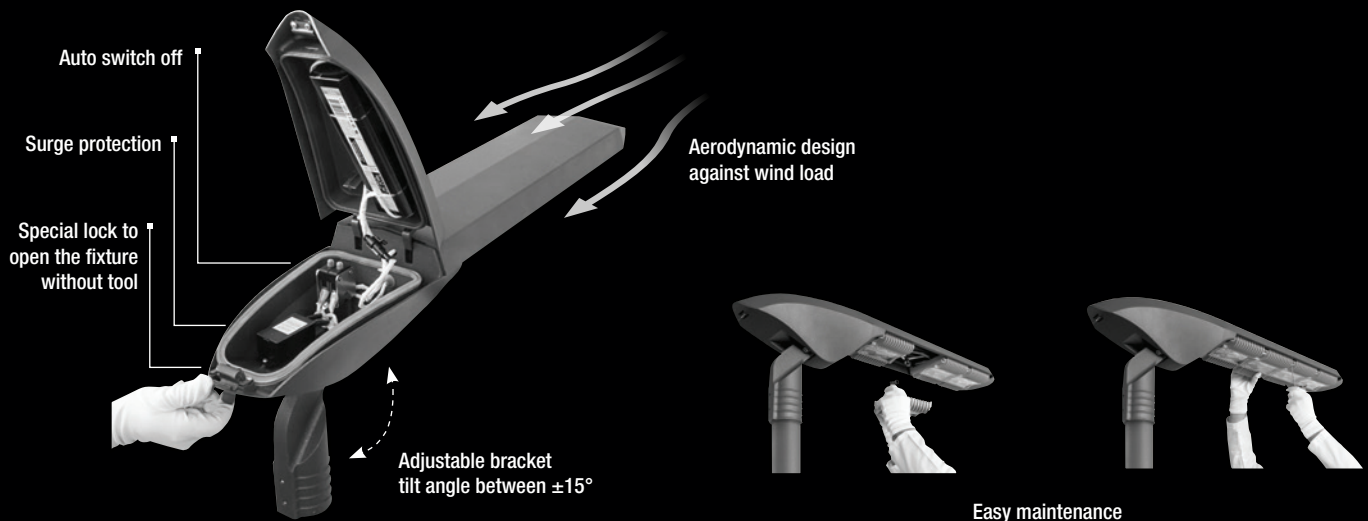
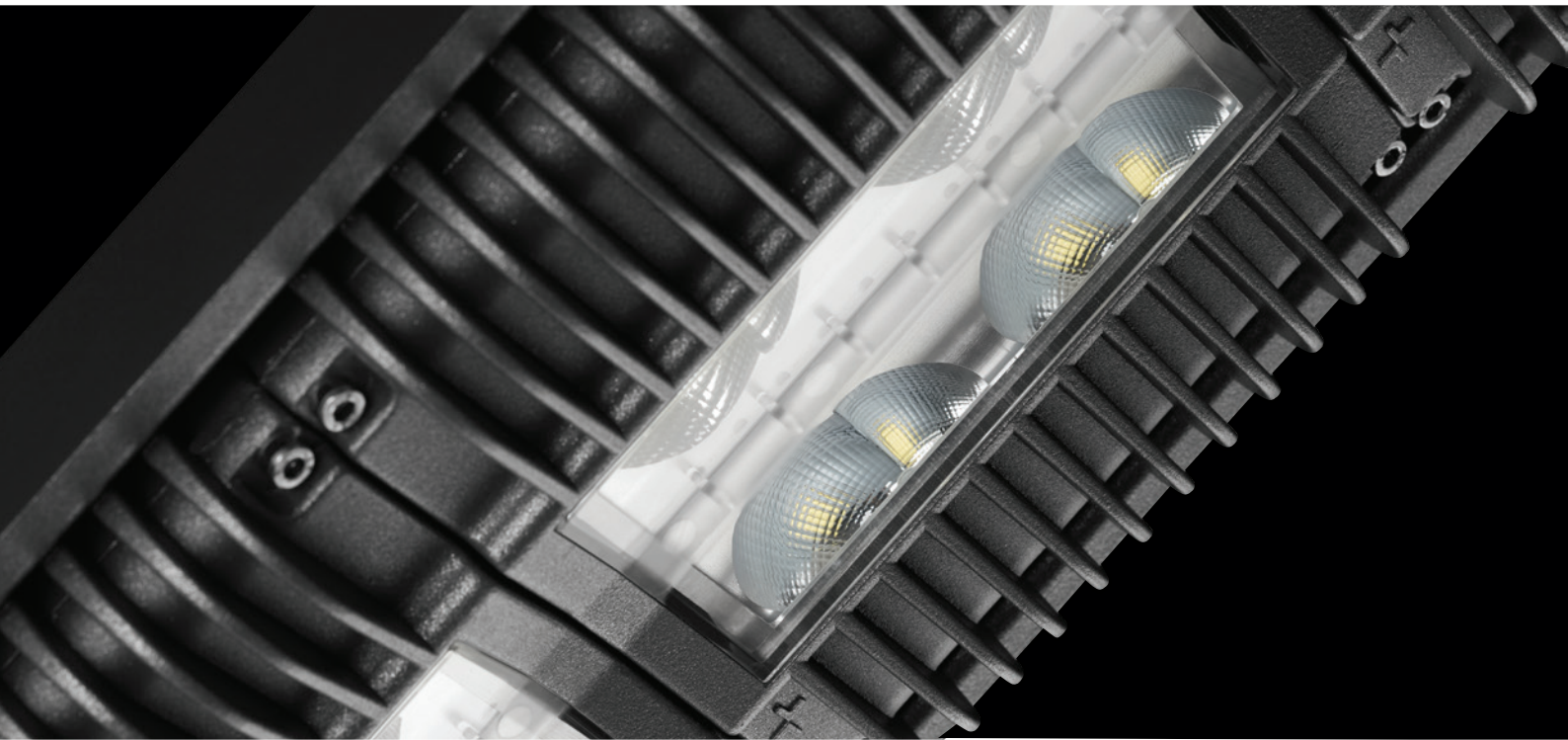
Auto switch off for maintenance

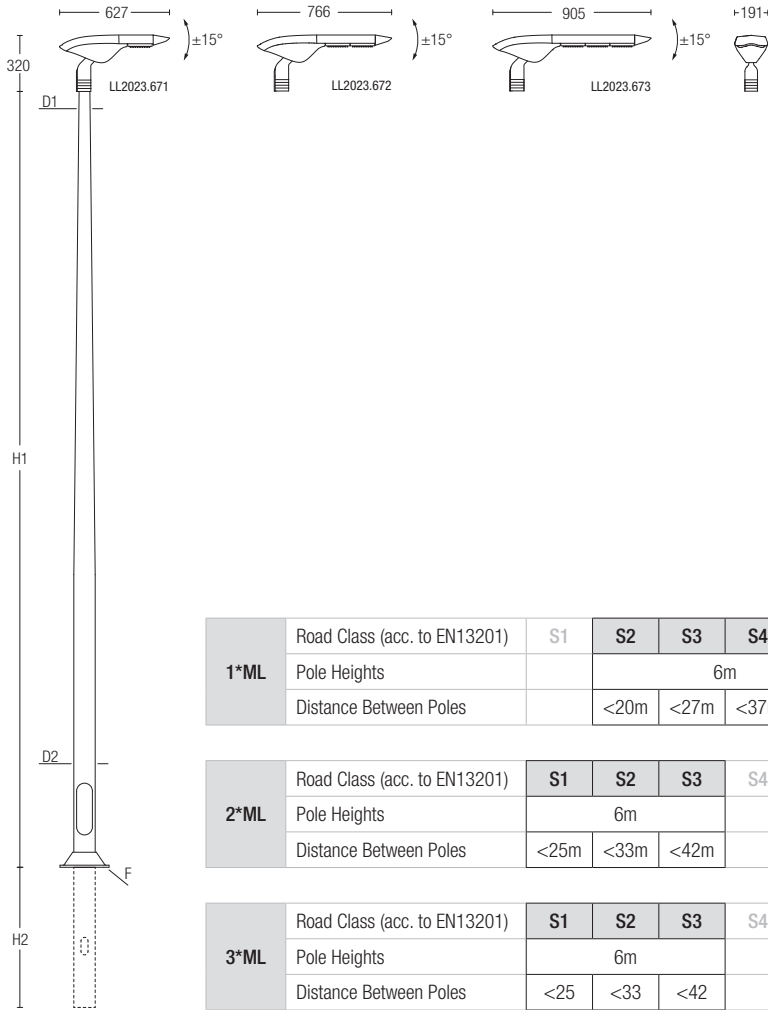
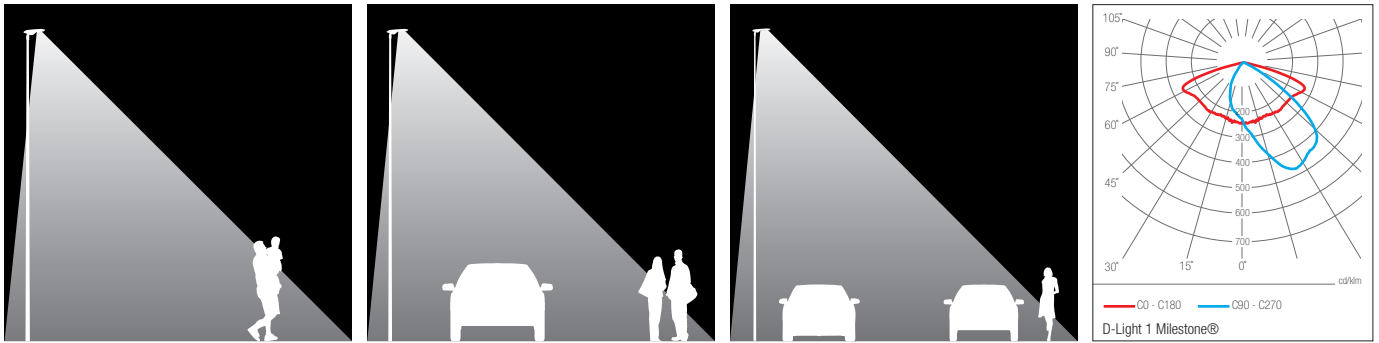
Operating temperature:  $-30^\circ\text{C}$  -  $+55^\circ\text{C}$

Complies with European Standards EN 60598, CE and ENEC certified









	Road Class (acc. to EN13201)	S1	S2	S3	S4	S5	S6	ME1	ME2	ME3	ME4	ME5	ME6	
<b>1*ML</b>	Pole Heights	6m											6m	
	Distance Between Poles	<20m	<27m	<37m	<42m							<29m	<33m	
<b>2*ML</b>	Road Class (acc. to EN13201)	S1	S2	S3	S4	S5	S6	ME1	ME2	ME3	ME4	ME5	ME6	
	Pole Heights	6m									6m			
	Distance Between Poles	<25m	<33m	<42m						<25m	<29m	<35m		
<b>3*ML</b>	Road Class (acc. to EN13201)	S1	S2	S3	S4	S5	S6	ME1	ME2	ME3	ME4	ME5	ME6	
	Pole Heights	6m								8m				
	Distance Between Poles	<25	<33	<42					<25m	<33m	<37m			

LUMINAIRE

CODE	DESCRIPTION	POWER	LUMEN	COLOR TEMPERATURE
LL2023.671	D-Light 1 Milestone®	35W	3400lm - 4000lm	3000K / 4000K
LL2023.672	D-Light 2 Milestone®	70W	6800lm - 8000lm	3000K / 4000K
LL2023.673	D-Light 3 Milestone®	105W	10200lm - 12000lm	3000K / 4000K

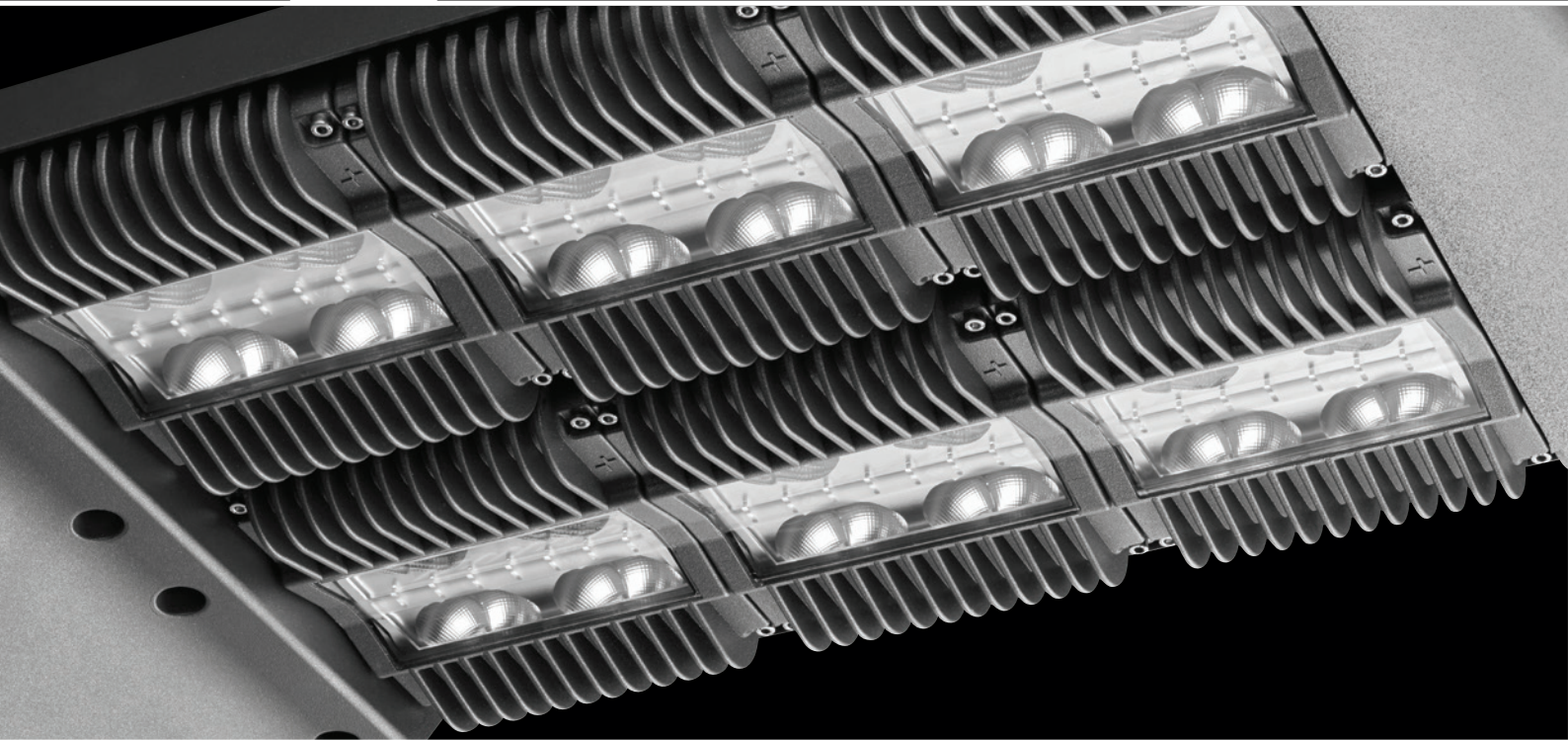
POLES

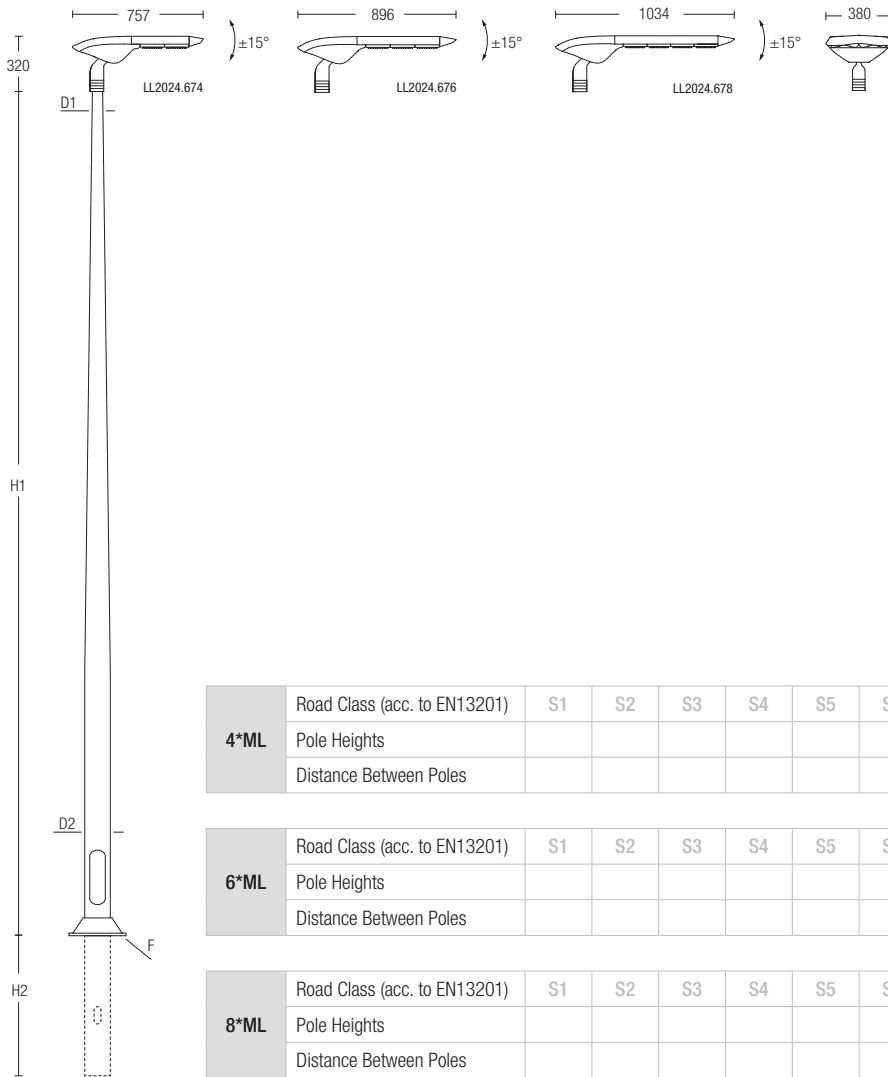
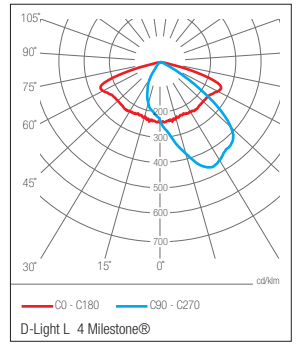
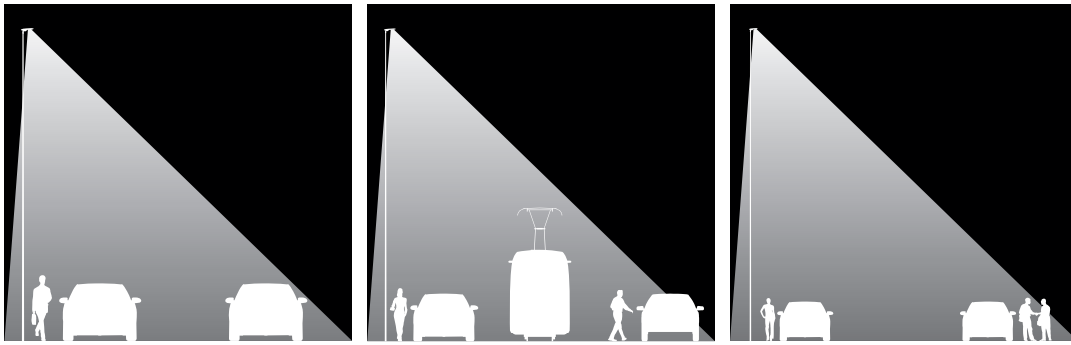
CODE	DESCRIPTION	H1	H2	D1	D2	ANCHORAGE	FLANGE COVER	CUT-OUT
PAFK.055.050	Aluminum Conical Pole Flanged	5000	-	Ø60	Ø122	90BJ004	C1D2B	51
PABK.055.050	Aluminum Conical Pole Buried	5000	800	Ø60	Ø122	-	-	51
PAFK.013.060	Aluminum Conical Pole Flanged	6000	-	Ø60	Ø122	90BJ004	C1D2B	51
PABK.013.060	Aluminum Conical Pole Buried	6000	1000	Ø60	Ø122	-	-	51
PAFK.050.060	Aluminum Conical Pole Flanged	6000	-	Ø60	Ø148	90CJ005	C1F2C	51
PABK.050.060	Aluminum Conical Pole Buried	6000	1000	Ø60	Ø148	-	-	51
PAFK.096.080	Aluminum Conical Pole Flanged	8000	-	Ø60	Ø165	90CJ006	C1G2C	51
PABK.096.080	Aluminum Conical Pole Buried	8000	1200	Ø60	Ø165	-	-	51

# D-Light L

Ideal solution for highways and roads  
Modular structure with Heper's patented Milestone® LED module  
Luminous flux: from 13600lm up to 32000lm with 4, 6 and 8 Milestone ® LED modules  
Color temperature: 3000K, 4000K  
Optimized road light distribution  
Multifaceted micro-reflection system with anti-glare feature  
CRI 4000K > 70, 3000K > 80  
Optimized PCB Design; aluminum PCB or FR-4 PCB with touchdown technology  
Corrosion resistant aluminum housing  
Electrostatic powder coating  
Color: standard HM1 to HM5, optional RAL codes  
IP66, IK08  
Safety class: standard CLASS I, optional CLASS II  
Control system (optional): 1-10V, DALI, DynaDIM  
Adjustable bracket tilt angle between  $\pm 15^\circ$   
Surge protection (optional): 10kV  
Auto switch off for maintenance  
Operating temperature: -30°C - +55°C  
Complies with European Standards EN 60598, CE and ENEC certified







<b>4*ML</b>	Road Class (acc. to EN13201)	S1	S2	S3	S4	S5	S6
	Pole Heights						
	Distance Between Poles						
<b>6*ML</b>	Road Class (acc. to EN13201)	S1	S2	S3	S4	S5	S6
	Pole Heights						
	Distance Between Poles						
<b>8*ML</b>	Road Class (acc. to EN13201)	S1	S2	S3	S4	S5	S6
	Pole Heights						
	Distance Between Poles						

<b>ME1</b>	<b>ME2</b>	<b>ME3</b>	<b>ME4</b>	ME5	ME6
8m					
<25m	<32m	<35m	<39m		
<b>ME1</b>	<b>ME2</b>	<b>ME3</b>	ME4	ME5	ME6
10m					
<32m	<38m	<52m			
<b>ME1</b>	<b>ME2</b>	<b>ME3</b>	ME4	ME5	ME6
12m					
<39m	<49m	<56m			

**LUMINAIRE**

CODE	DESCRIPTION	POWER	LUMEN	COLOR TEMPERATURE
LL2024.674	D-Light L 4 Milestone®	140W	13600lm - 16000lm	3000K / 4000K
LL2024.676	D-Light L 6 Milestone®	210W	20400lm - 24000lm	3000K / 4000K
LL2024.678	D-Light L 8 Milestone®	280W	27200lm - 32000lm	3000K / 4000K

**POLES**

CODE	DESCRIPTION	H1	H2	D1	D2	ANCHORAGE	FLANGE COVER	CUT-OUT
PAFK.096.080	Aluminum Conical Pole Flanged	8000	-	Ø60	Ø165	90CJ006	C1G2C	51
PABK.096.080	Aluminum Conical Pole Buried	8000	1200	Ø60	Ø165	-	-	51
PAFK.097.100	Aluminum Conical Pole Flanged	10000	-	Ø60	Ø180	90DJ008	C1H2D	51
PABK.097.100	Aluminum Conical Pole Buried	10000	1500	Ø60	Ø180	-	-	51
PAFK.098.120	Aluminum Conical Pole Flanged	12000	-	Ø60	Ø200	90DJ010	C1J2D	51
PABK.098.120	Aluminum Conical Pole Buried	12000	1700	Ø60	Ø200	-	-	51







# C-Light

Ideal solution for catenary applications

Modular structure with Heper's patented Milestone® LED module

Luminous flux: from 6800lm up to 16000lm with 2 and 4 Milestone® LED modules

Color temperature: 3000K, 4000K

Optimized road light distribution or symmetrical optimized light distribution

Multifaceted micro-reflection system with anti-glare feature

CRI 4000K > 70, 3000K > 80

Optimized PCB Design; aluminum PCB or FR-4 PCB with touchdown technology

Corrosion resistant aluminum housing

Electrostatic powder coating

Color: standard HM1 to HM5, optional RAL codes

IP66, IK08

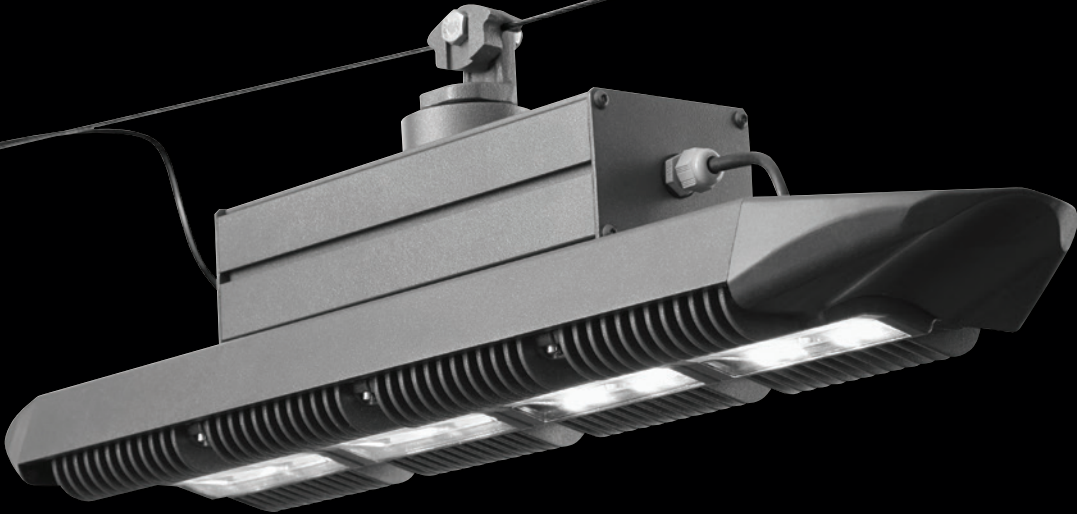
Safety class: CLASS I

Control system (optional): 1-10V, DALI, AstroDIM, DynaDIM

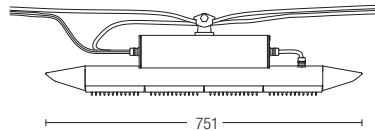
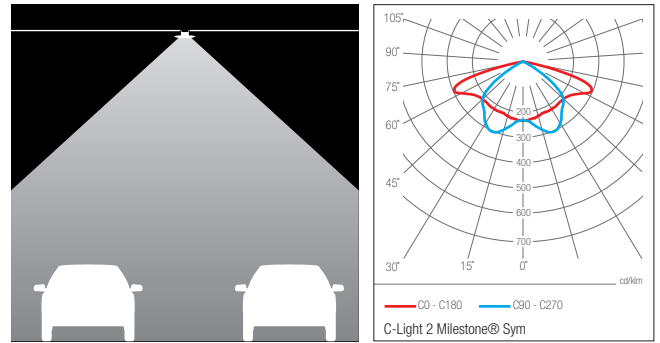
Surge protection (optional): 10kV

Operating temperature: -30°C - +55°C

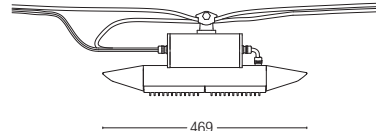
Complies with European Standards EN 60598 and CE certified



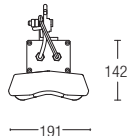




LC2029.674  
LC2029.674-Sym



LC2029.672  
LC2029.672-Sym



LUMINAIRE

CODE	DESCRIPTION	POWER	LUMEN	COLOR TEMPERATURE
LC2029.672	C-Light 2 Milestone®	70W	6800lm - 8000lm	3000K / 4000K
LC2029.672-Sym	C-Light 2 Milestone® Sym	70W	6800lm - 8000lm	3000K / 4000K
LC2029.674	C-Light 4 Milestone®	140W	13600lm - 16000lm	3000K / 4000K
LC2029.674-Sym	C-Light 4 Milestone® Sym	140W	13600lm - 16000lm	3000K / 4000K

# IN-Light

Ideal solution for industrial areas

Modular structure with Heper's patented Milestone® LED module

Luminous flux: from 6800lm up to 16000lm with 2 and 4 Milestone® LED modules

Color temperature: 3000K, 4000K

Symmetrical optimized light distribution

Multifaceted micro-reflection system with anti-glare feature

CRI 4000K > 70, 3000K > 80

Optimized PCB Design; aluminum PCB or FR-4 PCB with touchdown technology

Electrostatic powder coating

Corrosion resistant aluminum housing

Color: standard HM1 to HM5, optional RAL codes

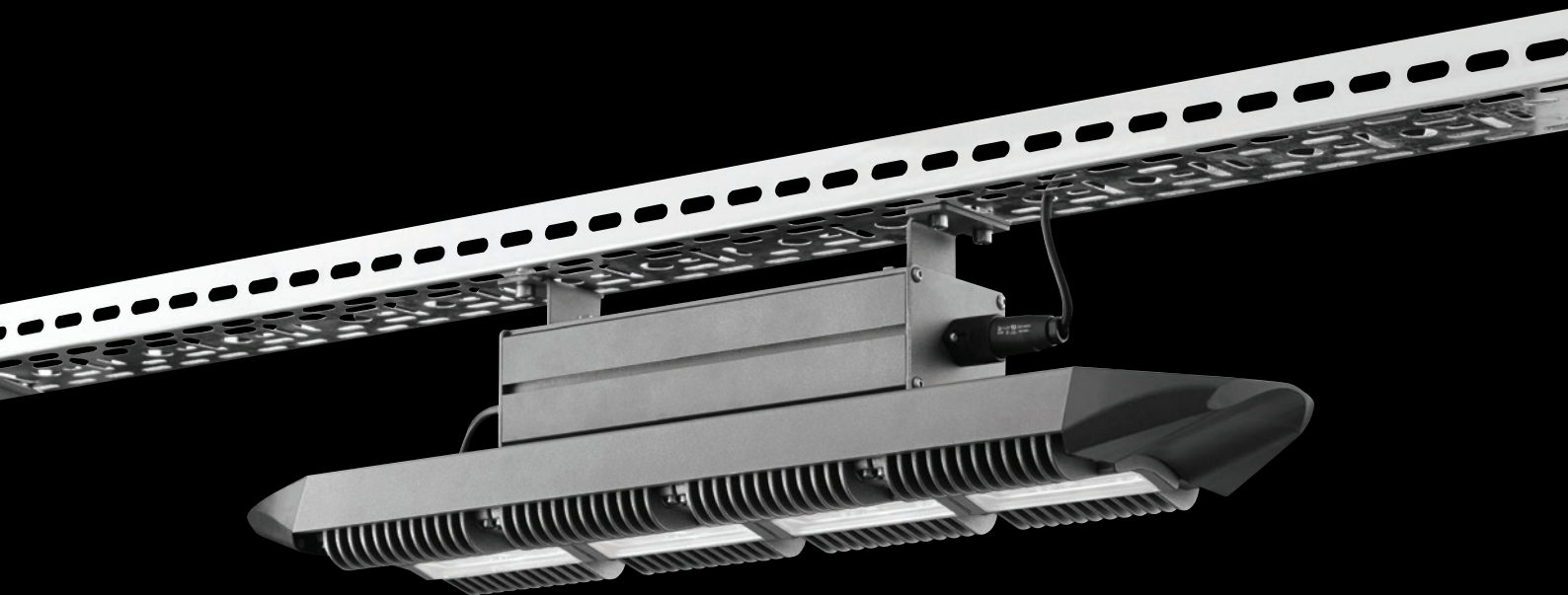
IP66, IK08

Safety class: CLASS I

Control system (optional): 1-10V, DALI

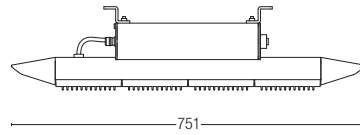
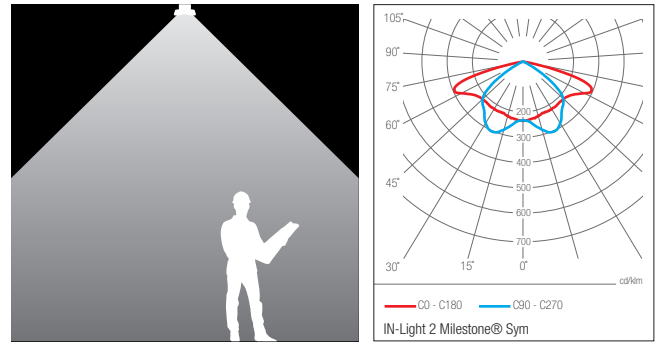
Operating temperature: -30°C - +55°C

Complies with European Standards EN 60598 and CE certified

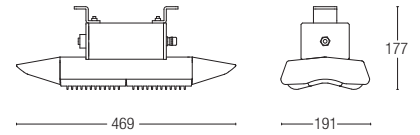








LW2029.674



LW2029.672

LUMINAIRE

CODE	DESCRIPTION	POWER	LUMEN	COLOR TEMPERATURE
LW2029.672	IN-Light 2 Milestone® Sym	70W	6800lm - 8000lm	3000K / 4000K
LW2029.674	IN-Light 4 Milestone® Sym	140W	13700lm - 16000lm	3000K / 4000K

# T-Light

Ideal solution for tunnels

Modular structure with Heper's patented Milestone® LED module

Luminous flux: from 6800lm up to 24000lm with Milestone® LED modules

Color temperature: 3000K, 4000K

Counterbeam, probeam, symmetrical and asymmetrical light distribution options for tunnel's different zones such as entrance, interior and exit zones

Multifaceted micro-reflection system with anti-glare feature

CRI 4000K > 70, 3000K > 80

Optimized PCB Design; aluminum PCB or FR-4 PCB with touchdown technology

Corrosion resistant aluminum housing

Electrostatic powder coating

Color: standard HM1 to HM5, optional RAL codes

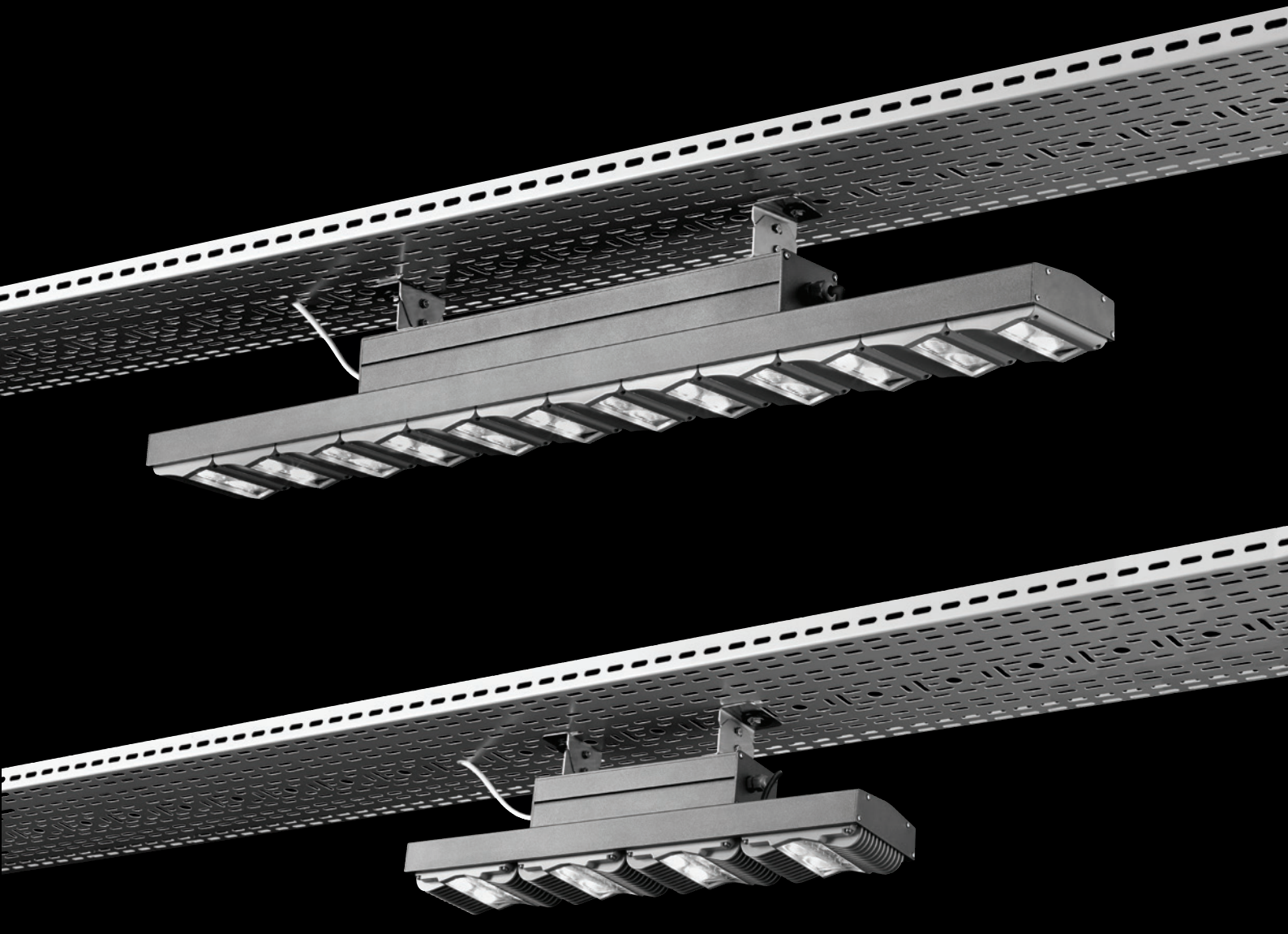
IP66, IK08

Safety class: CLASS I

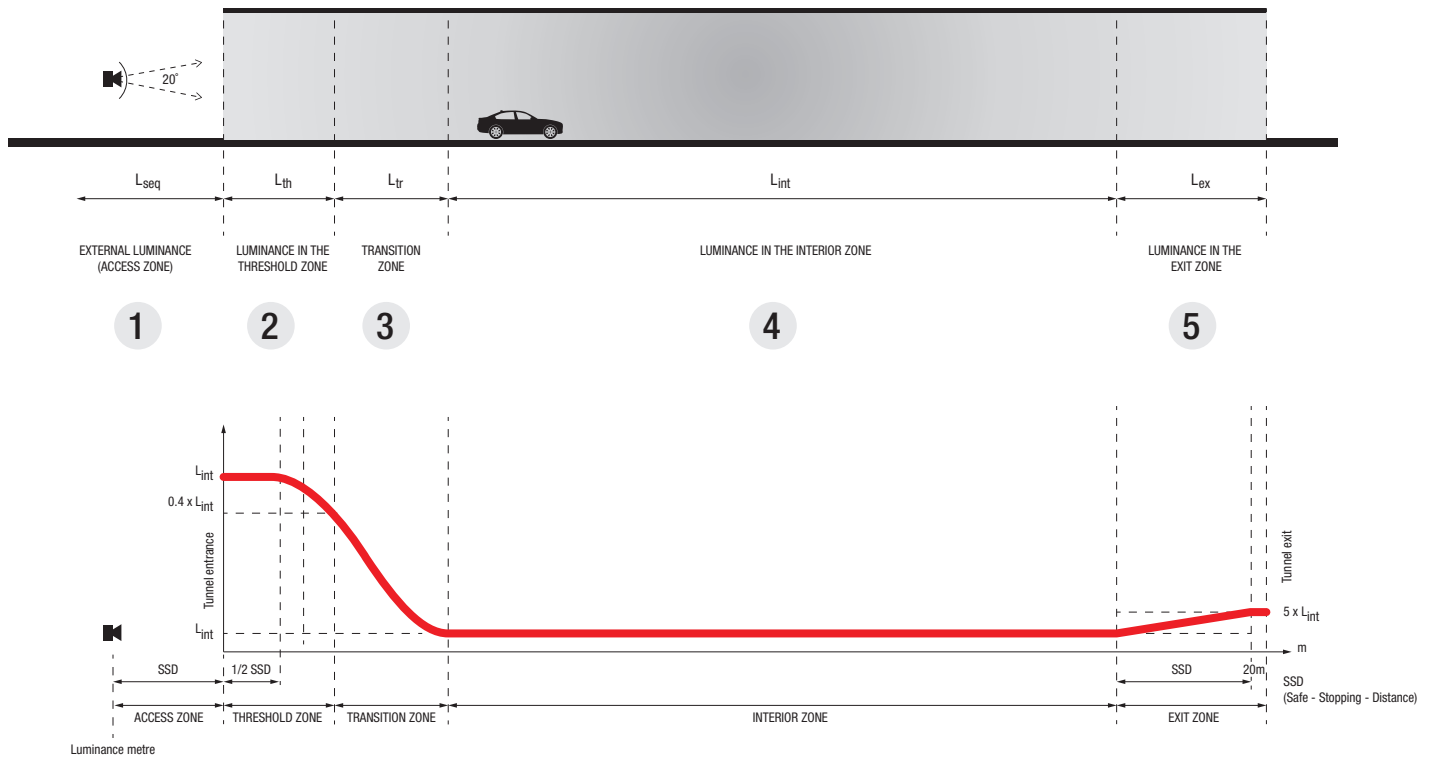
Control system (optional): 1-10V, DALI

Operating temperature: -30°C - +55°C

Complies with European Standards EN 60598, CE and ENEC certified

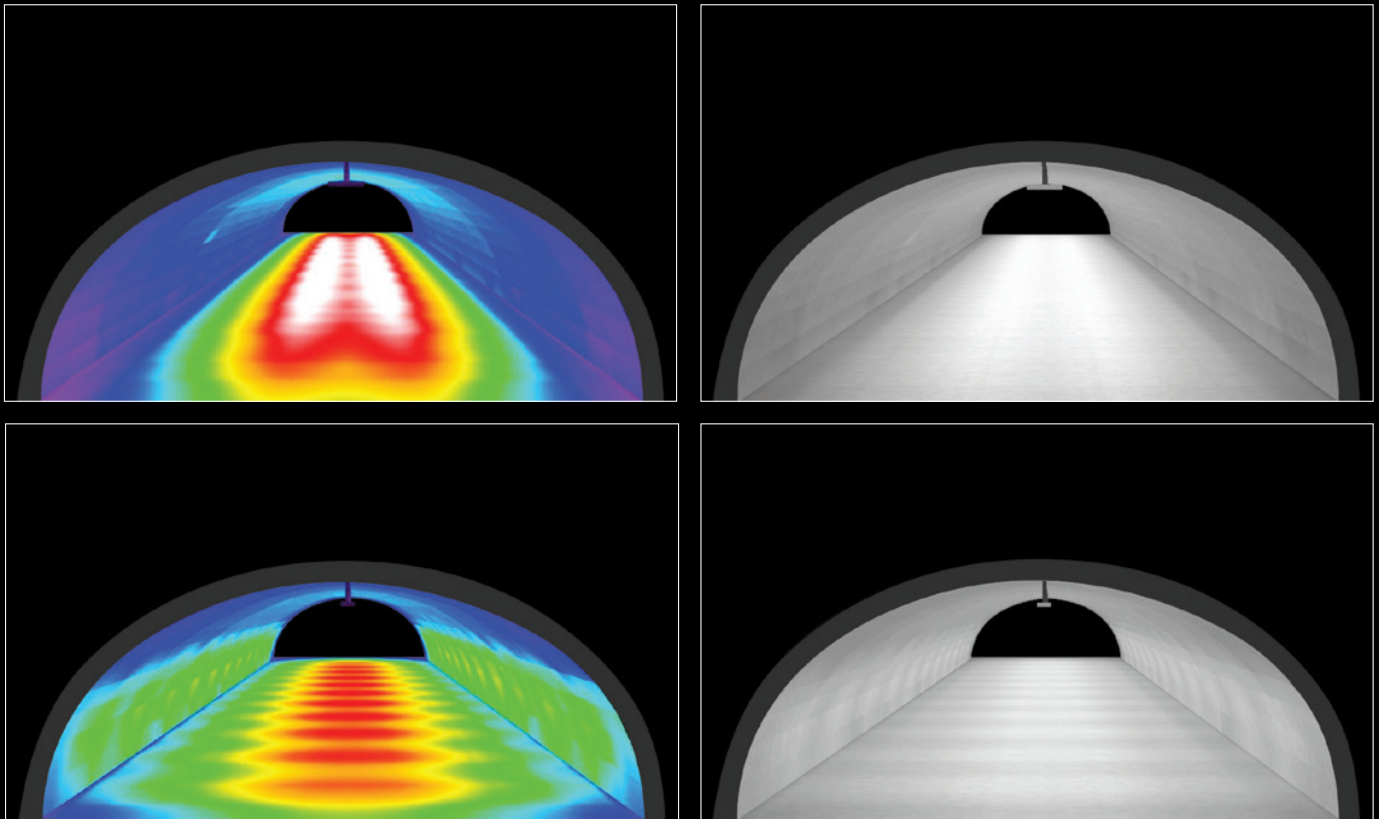


# Tunnel Lighting Principles



## Zone Types

- 1 Access zone**  
The part of the open road in front of the tunnel portal in the approach direction, covering the distance over which an approaching driver is able to see tunnel entrance. The access zone begins at the stopping distance before of the entrance portal and it ends at the tunnel entrance portal.
- 2 Threshold zone**  
The first part of the tunnel, just after the entrance portal. The threshold zone starts either at the beginning of the tunnel or at the beginning of the daylight sunscreens when occurring. The length of the threshold zone is at least equal to the stopping distance.
- 3 Transition zone**  
The part of the tunnel starts from just after the threshold zone and ends at the beginning of interior zone. The lighting level in the transition zone is decreasing from the level at the end of the threshold zone to the level of the interior zone. Interior zone: the part of the tunnel after the transition zone till to the beginning of the exit zone.
- 4 Interior zone**  
The part of the tunnel after the transition zone till to the beginning of the exit zone.
- 5 Exit zone**  
The exit zone begins at the end of the interior zone, ends at the exit portal of the tunnel.



## Design Criterias

### Design speed

The design speed is the speed for which the tunnel is laid out. It is generally accepted that this speed is the maximum speed allowed on the access roads to the tunnel.

### Reference point

The reference point is in principle the point located in the centre of the approaching lanes, at a height of 1,5 m and at a distance from the entrance of the tunnel equal to the stopping distance (SD) at the design speed.

### Stopping distance

Stopping distance is the distance necessary to stop the vehicle moving at the speed in question in total safety. It comprises the distance covered during the reaction time and during the braking time.

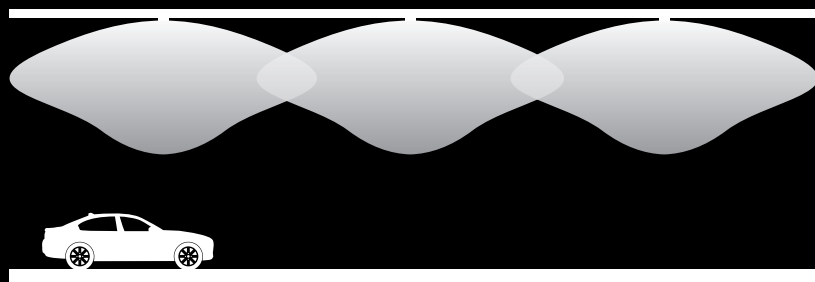
### Tunnel

Tunnel is the structure over a roadway that restricts the normal daytime natural illumination of a roadway section such that the driver's visual sensation is diminished. In order to classify changing lighting requirements along with the tunnel length, tunnel is evaluated in the form of sub interior zones: the access zone, the threshold zone, the transition zone, the interior zone, the exit zone and parting zone.

### Traffic flow

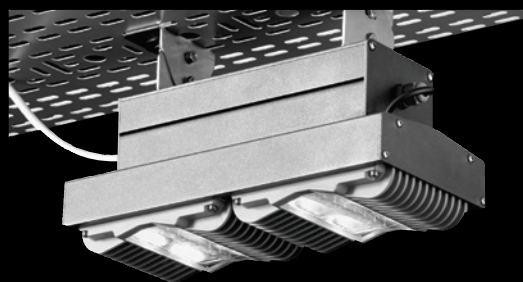
The number of vehicles passing a specific point in a stated time in stated direction(s). In tunnel design, peak hour traffic, vehicles per hour per lane, will be used.

# Light Distributions

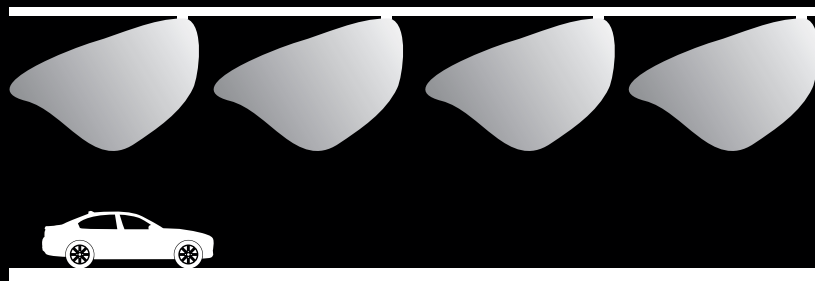


## Symmetric lighting

The lighting where the light equally falls on objects in directions with and against the traffic. Symmetric lighting is characterized by using luminaires that show a luminous intensity distribution that is symmetric in relation to the plane normal to the direction of the traffic.

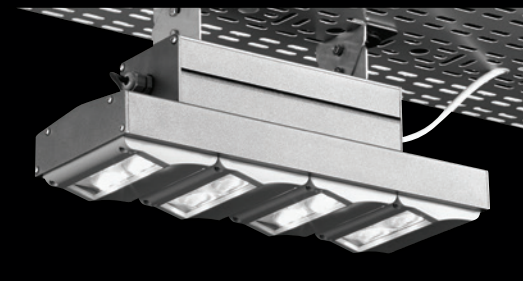


Milestone® Symmetrical Light Distribution

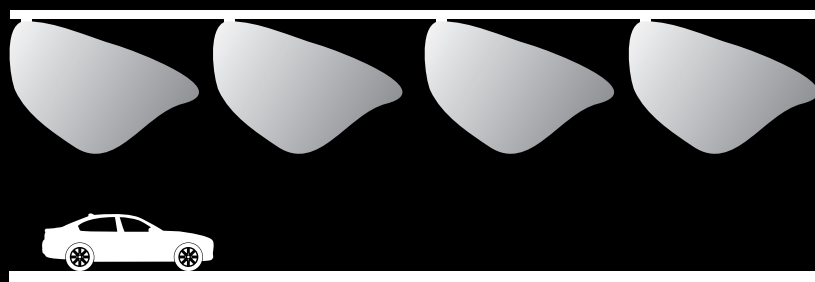


## Counter-beam lighting

The lighting where the light falls on objects from an opposite direction to the traffic. Counter-beam lighting is characterized by using luminaires that show a luminous intensity distribution that is asymmetric in relation to the plane normal to the direction of the traffic, where the maximum luminous intensity is aimed against the direction of the traffic. The term refers only to the direction of normal travel.

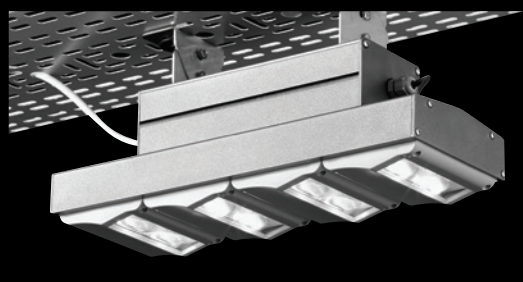


Milestone® Counter-beam Light Distribution



## Pro-beam lighting

The lighting where the light falls on objects in the same direction as the traffic. Pro-beam lighting is characterized by using luminaires that show a luminous intensity distribution that is asymmetric in relation to the 90/270 C-plane (the plane normal to the direction of the traffic), where the maximum luminous intensity is aimed in the same direction as the direction of the traffic.



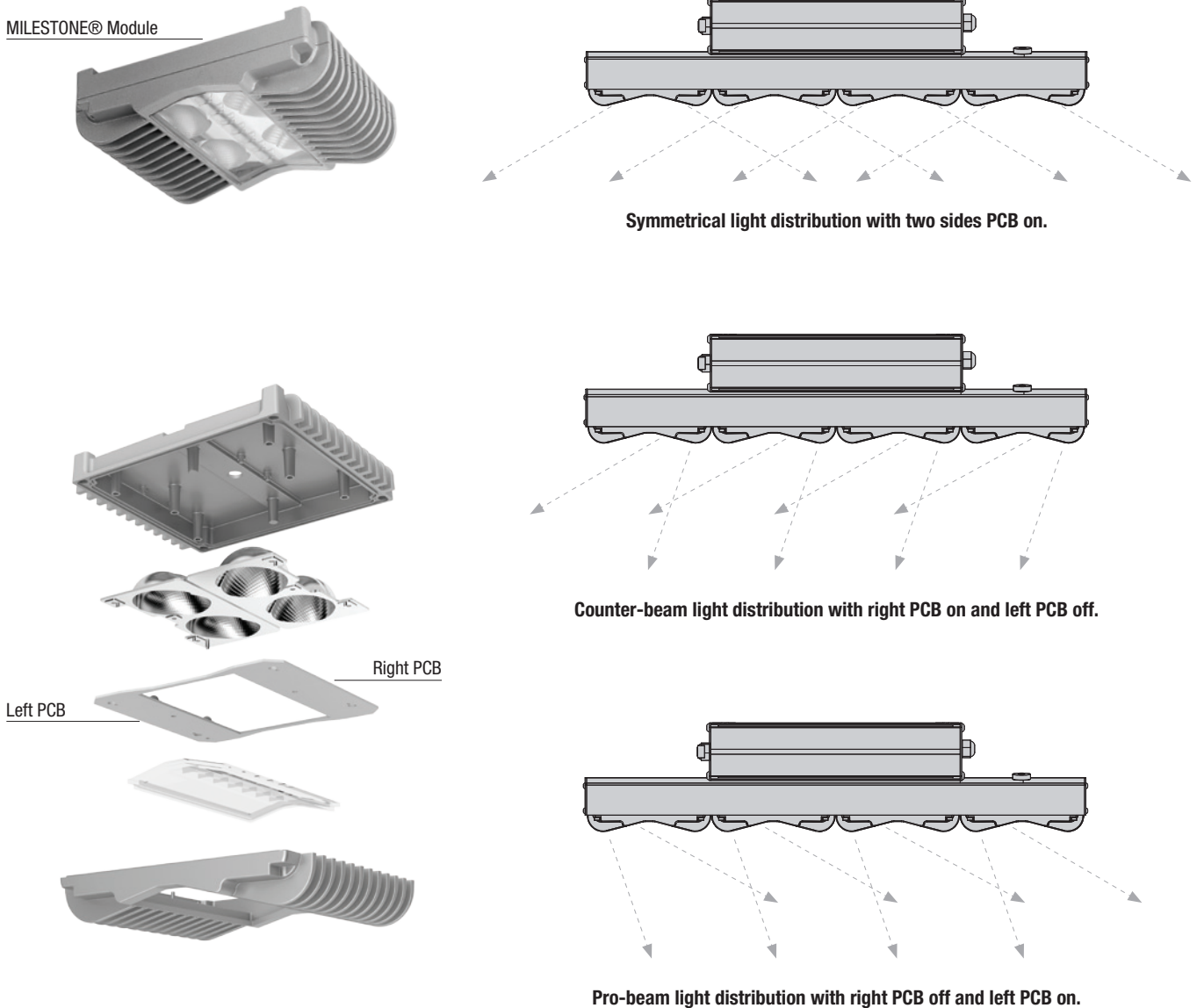
Milestone® Pro-beam Light Distribution

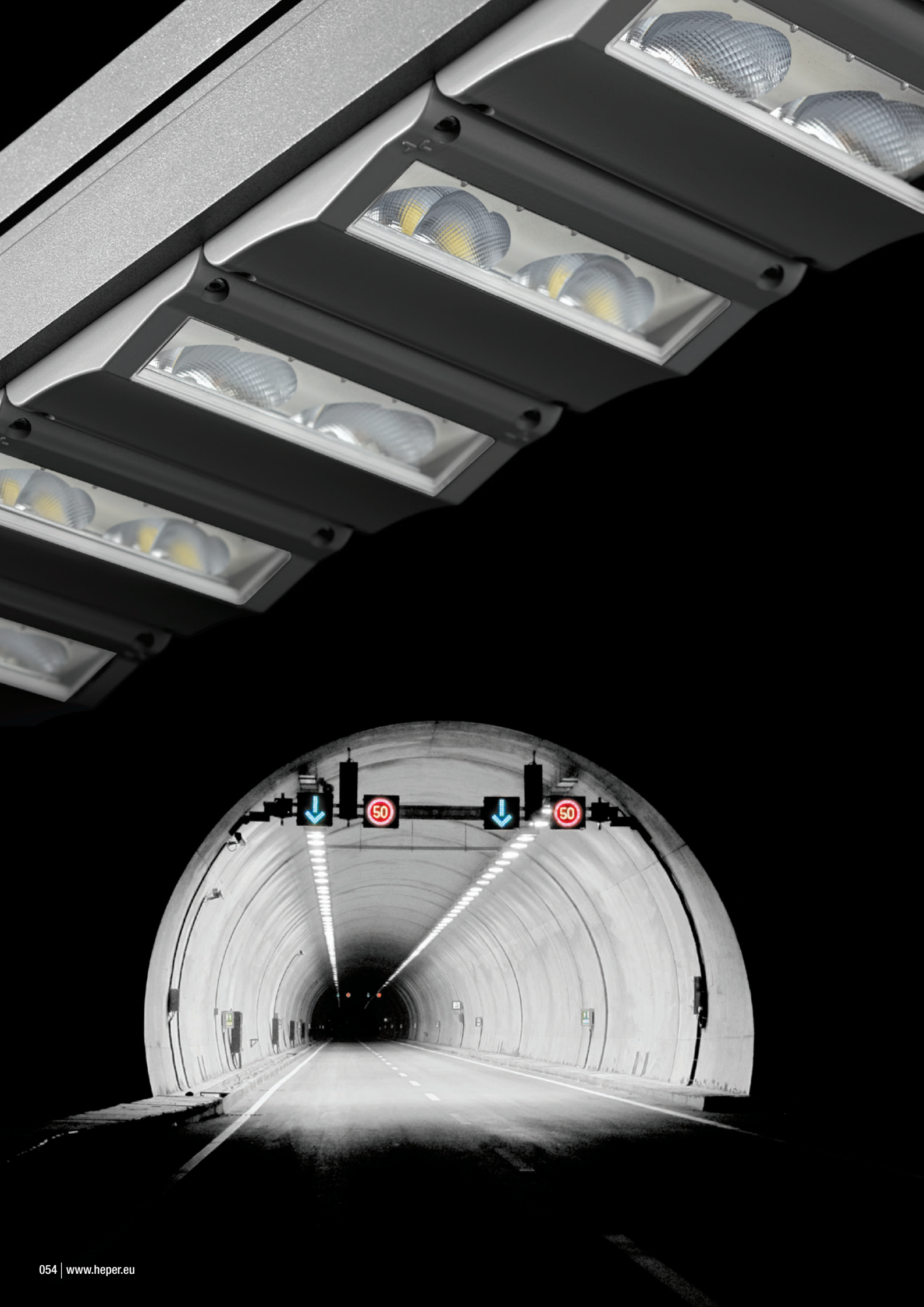
# Adaptive Lighting

Depending of the design criterias, you would need different light distributions along the tunnel such as Pro-beam, Counter-beam or Symmetrical. Especially in "Transition zone", there is common use of Symmetrical light distribution where the driver would need to see any objects within the stopping distance. In principle, stopping distance is calculated according to traffic flow. But traffic flow is not constant in general, it means there are different times of the day where you'll see high or low traffic.

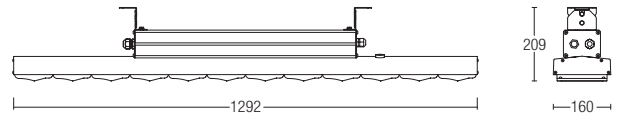
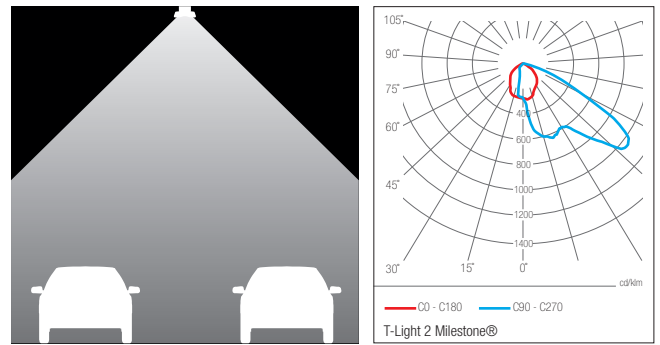
There are several researches that proves main reason for the accidents in tunnel is not related to seeing any object but the car next to us. When the traffic flow is higher than expected, to be able to see the next car, Pro-beam lighting would be sufficient and even visually more comfortable as the light will only be directed in front of the driver.

This is where the T-Light concept comes along. T-Light is the only luminaire in the world that has electronically switchable optical units providing Pro-beam, Counter-beam and Symmetrical light distribution. Thanks to the patented Milestone® technology of Heper, it's possible to control separately two PCB's within the Milestone® module. With a careful planning, it would be possible to have an intelligent approach to the tunnel lighting design. When there is high traffic flow, system can change to Pro-beam light distribution automatically. This means more visual comfort, less accidents.

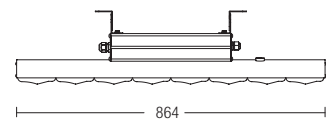




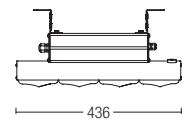




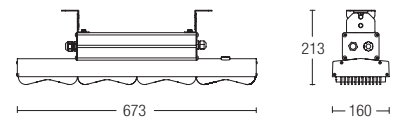
LT2029.653



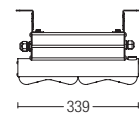
LT2029.652



LT2029.651



LT2029.674  
LT2029.674-Sym

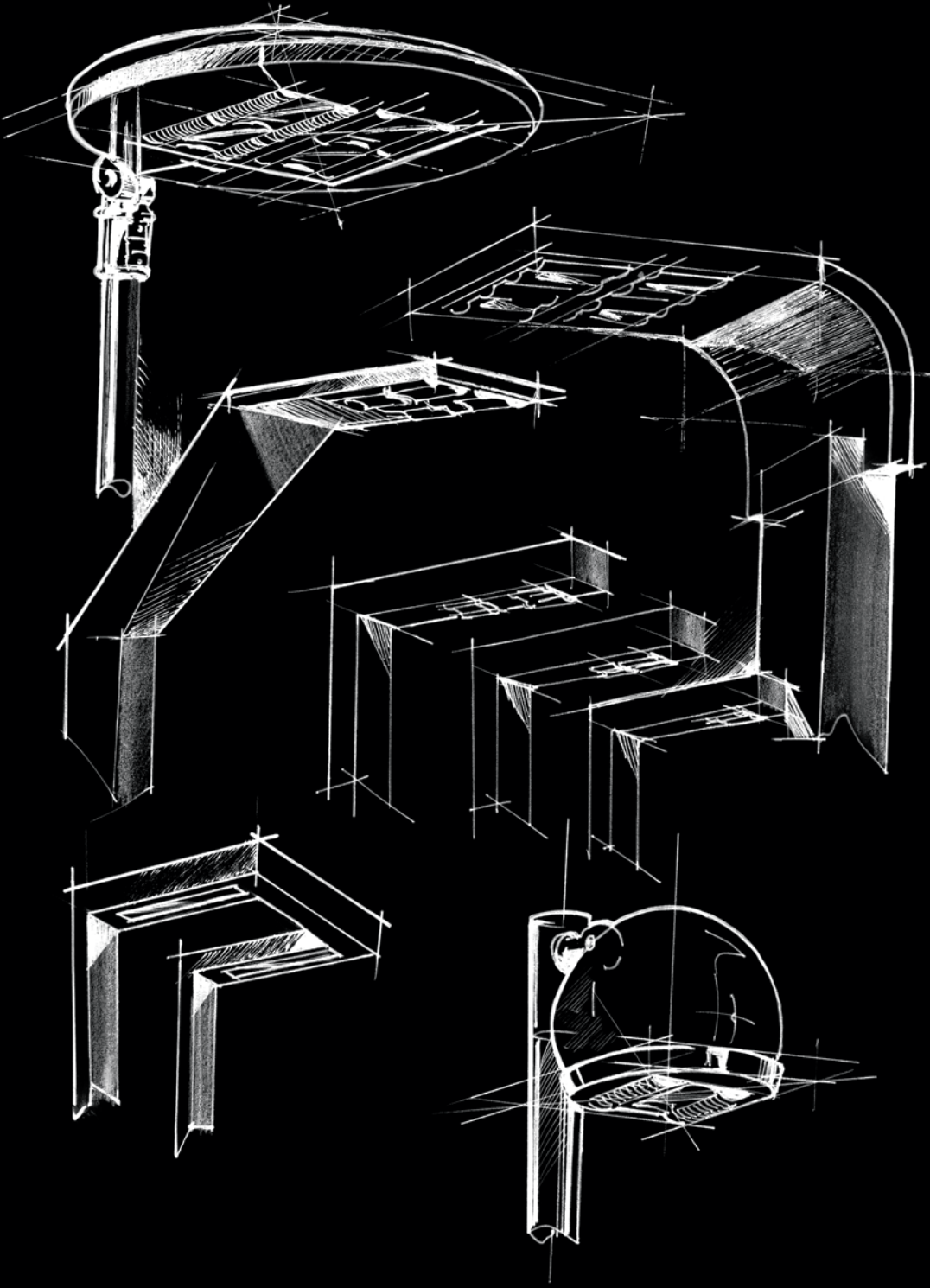


LT2029.672  
LT2029.672-Sym

LUMINAIRE

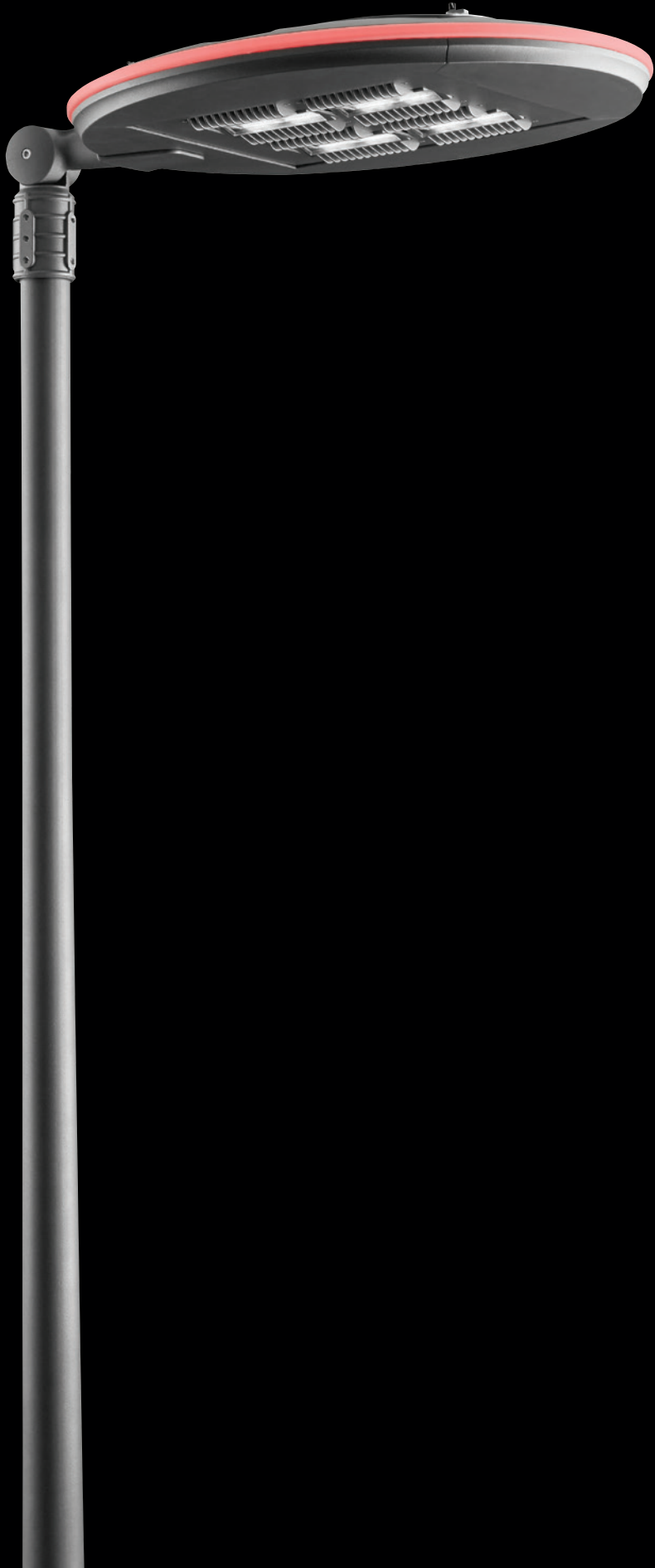
CODE	DESCRIPTION	POWER	LUMEN	COLOR TEMPERATURE
LT2029.651	T-Light 4 CB Milestone®	70W	6800lm - 8000lm	3000K / 4000K
LT2029.652	T-Light 8 CB Milestone®	140W	13600lm - 16000lm	3000K / 4000K
LT2029.653	T-Light 12 CB Milestone®	210W	20400lm - 24000lm	3000K / 4000K
LT2029.672	T-Light 2 Milestone®	70W	6800lm - 8000lm	3000K / 4000K
LT2029.672-Sym	T-Light 2 Milestone® Sym	70W	6800lm - 8000lm	3000K / 4000K
LT2029.674	T-Light 4 Milestone®	140W	13600lm - 16000lm	3000K / 4000K
LT2029.674-Sym	T-Light 4 Milestone® Sym	140W	13600lm - 16000lm	3000K / 4000K

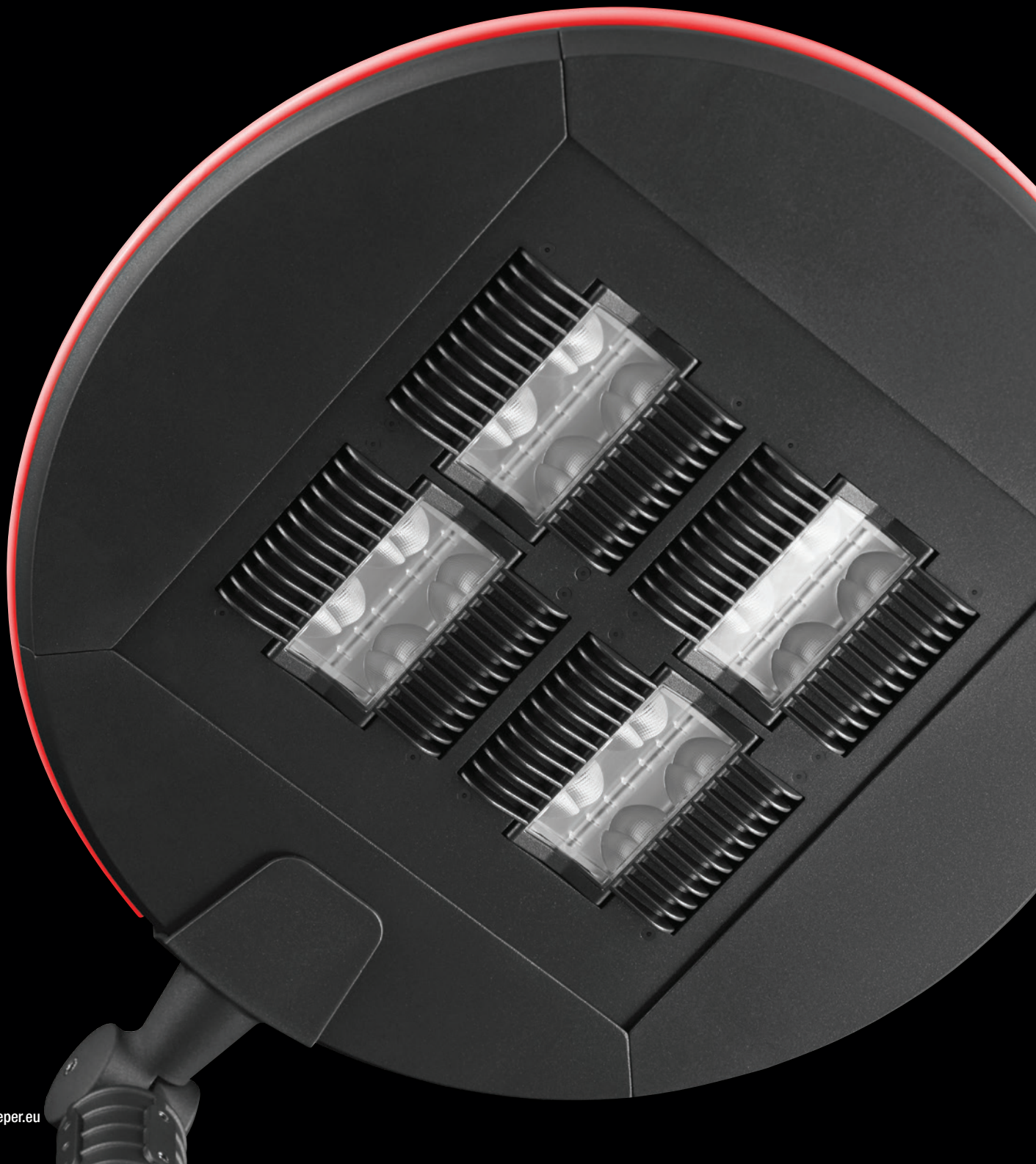
# ARCHITECTURAL STREET

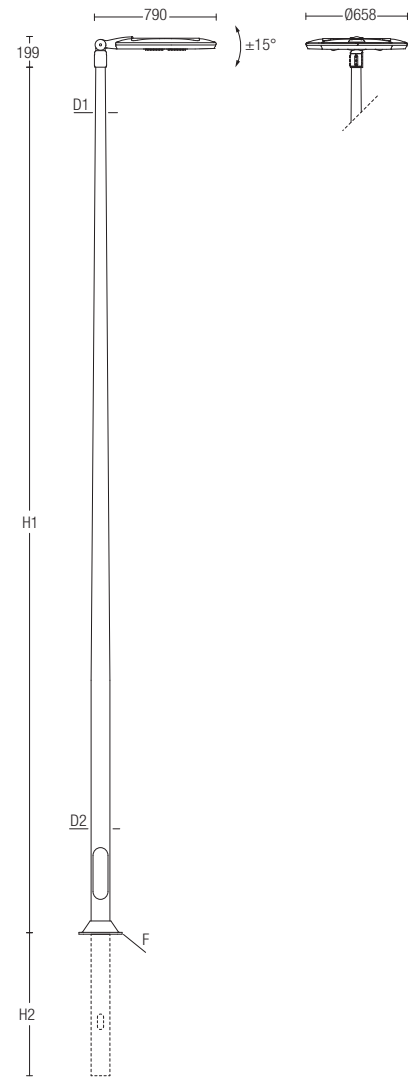
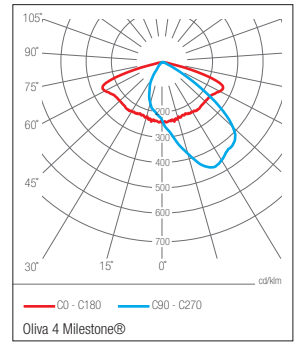
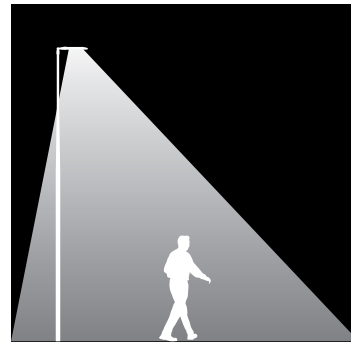


# Oliva

Ideal solution for roads and landscape areas  
Modular structure with Heper's patented Milestone® LED module  
Luminous flux: from 6800lm up to 16000lm with 2 and 4 Milestone® LED modules  
Color temperature: 3000K, 4000K  
Optimized road light distribution  
Multifaceted micro-reflection system with anti-glare feature  
CRI 4000K > 70, 3000K > 80  
Optimized PCB Design; aluminum PCB or FR-4 PCB with touchdown technology  
Corrosion resistant aluminum housing  
Electrostatic powder coating  
Color: standard HM1 to HM5, optional RAL codes  
IP66, IK08  
Safety class: CLASS I  
Control system (optional): 1-10V, DALI, DynaDIM, AstroDIM  
Adjustable bracket tilt angle between  $\pm 15^\circ$   
Operating temperature: -30°C - +55°C  
Complies with European Standards EN 60598 and CE certified







LUMINAIRE

CODE	DESCRIPTION	POWER	LUMEN	COLOR TEMPERATURE
LL2002.672	Oliva 2 Milestone®	70W	6800lm - 8000lm	3000K / 4000K
LL2002.674	Oliva 4 Milestone®	140W	13600lm - 16000lm	3000K / 4000K

POLES

CODE	DESCRIPTION	H1	H2	D1	D2	ANCHORAGE	FLANGE COVER	CUT-OUT
PAFK.005.040	Aluminum Conical Pole Flanged	4000	-	Ø60	Ø114	90BJ002	C1C2B	51
PABK.005.040	Aluminum Conical Pole Buried	4000	800	Ø60	Ø114	-	-	51
PAFK.055.050	Aluminum Conical Pole Flanged	5000	-	Ø60	Ø122	90BJ004	C1D2B	51
PABK.055.050	Aluminum Conical Pole Buried	5000	800	Ø60	Ø122	-	-	51
PAFK.013.060	Aluminum Conical Pole Flanged	6000	-	Ø60	Ø122	90BJ004	C1D2B	51
PABK.013.060	Aluminum Conical Pole Buried	6000	1000	Ø60	Ø122	-	-	51







# Sole

Ideal solution for roads and landscape areas

Modular structure with Heper's patented Milestone® LED module

Luminous flux: from 3400lm up to 8000lm with 1 and 2 Milestone® LED modules

Color temperature: 3000K, 4000K

Optimized road light distribution

Multifaceted micro-reflection system with anti-glare feature

CRI 4000K > 70, 3000K > 80

Optimized PCB Design; aluminum PCB or FR-4 PCB with touchdown technology

Corrosion resistant aluminum housing

Electrostatic powder coating

Color: standard HM1 to HM5, optional RAL codes

IP66, IK08

Safety class: CLASS I

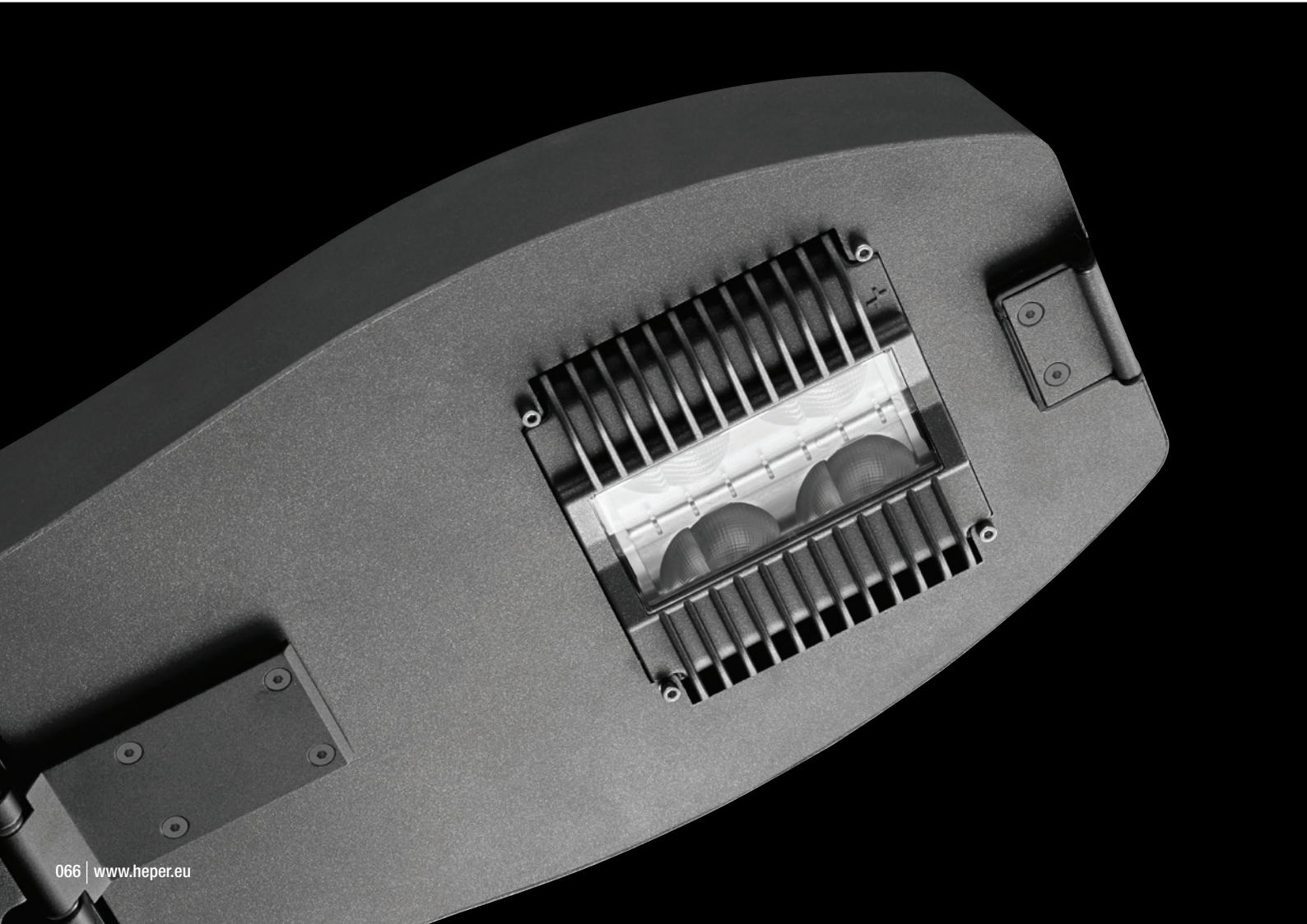
Control system (optional): 1-10V, DALI, DynaDIM, AstroDIM

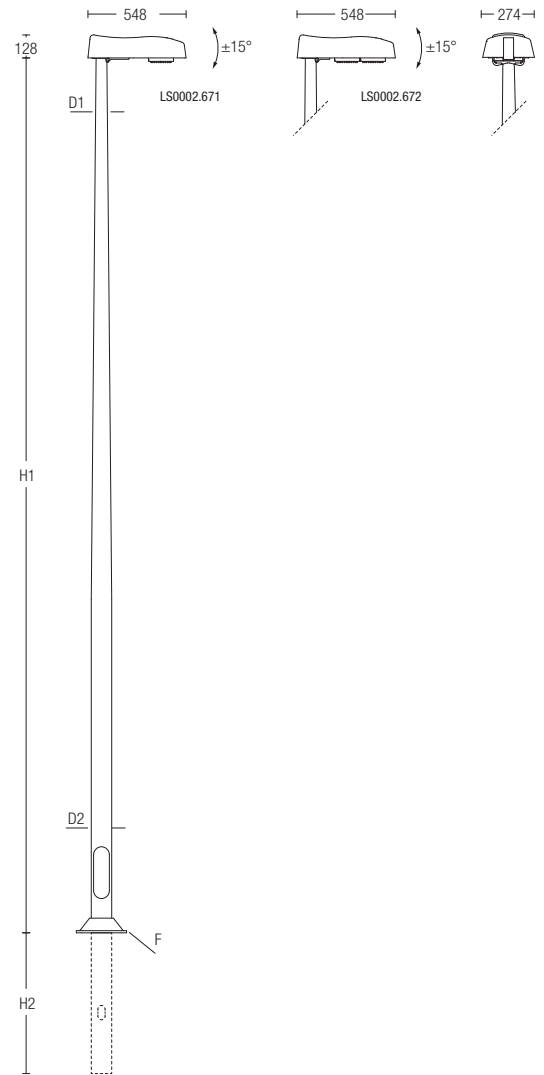
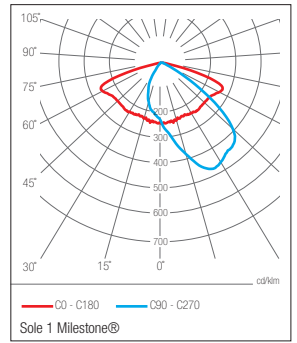
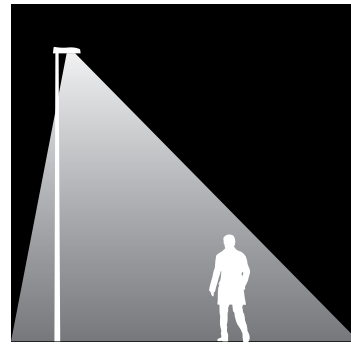
Adjustable bracket tilt angle between  $\pm 15^\circ$

Operating temperature: -30°C - +55°C

Complies with European Standards EN 60598 and CE certified







LUMINAIRE

CODE	DESCRIPTION	POWER	LUMEN	COLOR TEMPERATURE
LS0002.671	Sole 1 Milestone®	35W	3400lm - 4000lm	3000K / 4000K
LS0002.672	Sole 2 Milestone®	70W	6800lm - 8000lm	3000K / 4000K

POLES

CODE	DESCRIPTION	H1	H2	D1	D2	ANCHORAGE	FLANGE COVER	CUT-OUT
PAFK.001.030	Aluminum Conical Pole Flanged	3000	-	Ø60	Ø114	90BJ001	C1C2B	51
PABK.001.030	Aluminum Conical Pole Buried	3000	800	Ø60	Ø114	-	-	51
PAFK.005.040	Aluminum Conical Pole Flanged	4000	-	Ø60	Ø114	90BJ002	C1D2B	51
PABK.005.040	Aluminum Conical Pole Buried	4000	800	Ø60	Ø114	-	-	51
PAFK.055.050	Aluminum Conical Pole Flanged	5000	-	Ø60	Ø122	90BJ004	C1D2B	51
PABK.055.050	Aluminum Conical Pole Buried	5000	800	Ø60	Ø122	-	-	51





# Rhino

Ideal solution for roads and landscape areas

Modular structure with Heper's patented Milestone® LED module

Luminous flux: 3400lm - 4000lm

Color temperature: 3000K, 4000K

CRI 4000K > 70, 3000K > 80

Optimized road light distribution

Multifaceted micro-reflection system with anti-glare feature

Optimized PCB Design; aluminum PCB or FR-4 PCB with touchdown technology

Corrosion resistant aluminum housing

Electrostatic powder coating

Color: standard HM1 to HM5, optional RAL codes

IP66, IK08

Safety class: CLASS I

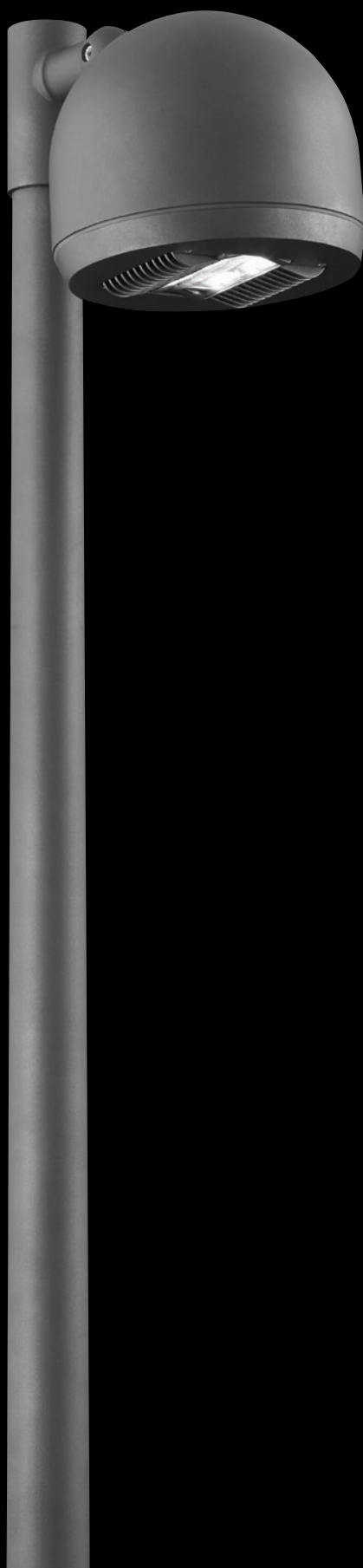
Control system optional: 1-10V, AstroDIM

Adjustable bracket tilt angle between  $\pm 15^\circ$

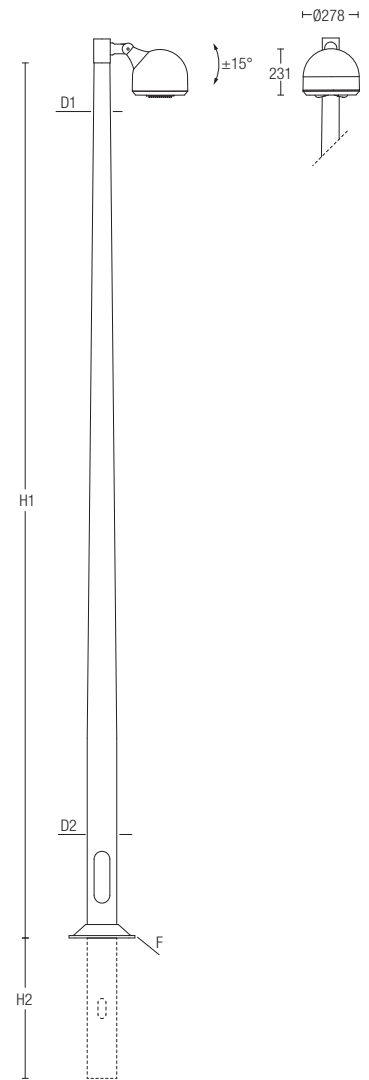
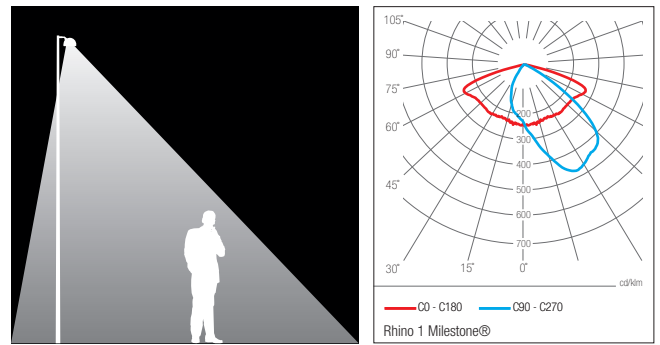
Operating temperature: -30°C - +55°C

Complies with European Standards EN 60598 and CE certified









LUMINAIRE

CODE	DESCRIPTION	POWER	LUMEN	COLOR TEMPERATURE
LL2028.671	Rhino 1 Milestone®	35W	3400lm - 4000lm	3000K / 4000K

POLES

CODE	DESCRIPTION	H1	H2	D1	D2	ANCHORAGE	FLANGE COVER	CUT-OUT
PAFK.001.030	Aluminum Conical Pole Flanged	3000	-	$\varnothing 60$	$\varnothing 114$	90BJ001	C1C2B	51
PABK.001.030	Aluminum Conical Pole Buried	3000	800	$\varnothing 60$	$\varnothing 114$	-	-	51
PAFK.005.040	Aluminum Conical Pole Flanged	4000	-	$\varnothing 60$	$\varnothing 114$	90BJ002	C1C2B	51
PABK.005.040	Aluminum Conical Pole Buried	4000	800	$\varnothing 60$	$\varnothing 114$	-	-	51

# Wings

Ideal solution for roads and landscape areas

Modular structure with Heper's patented Milestone® LED module

Luminous flux: from 6800lm up to 16000lm with 2 and 4 Milestone® LED modules

Color temperature: 3000K, 4000K

CRI 4000K > 70, 3000K > 80

Optimized road light distribution

Multifaceted micro-reflection system with anti-glare feature

Optimized PCB Design; aluminum PCB or FR-4 PCB with touchdown technology

Corrosion resistant aluminum housing

Electrostatic powder coating

Color: standard HM1 to HM5, optional RAL codes

IP66, IK08

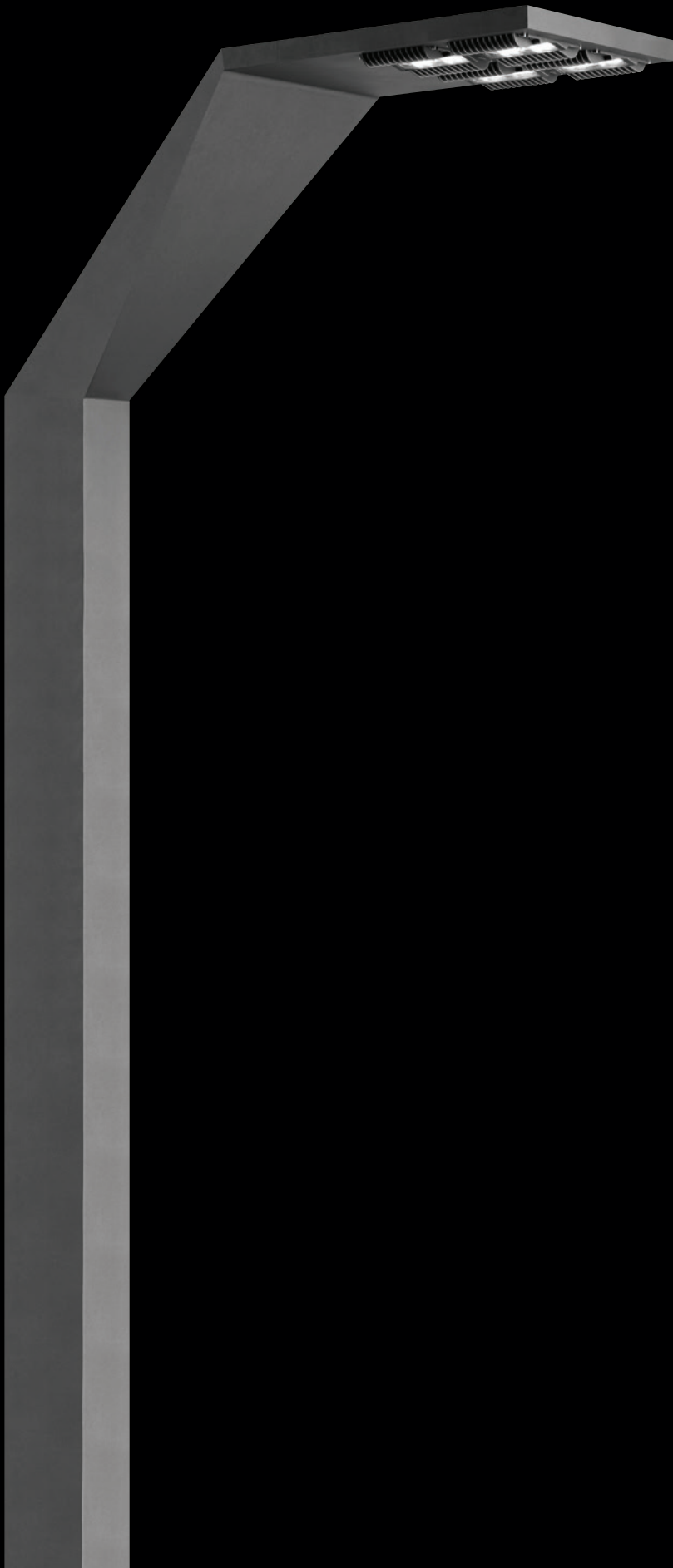
Safety class: CLASS I

Control system (optional): 1-10V, DALI, DynaDIM, AstroDIM

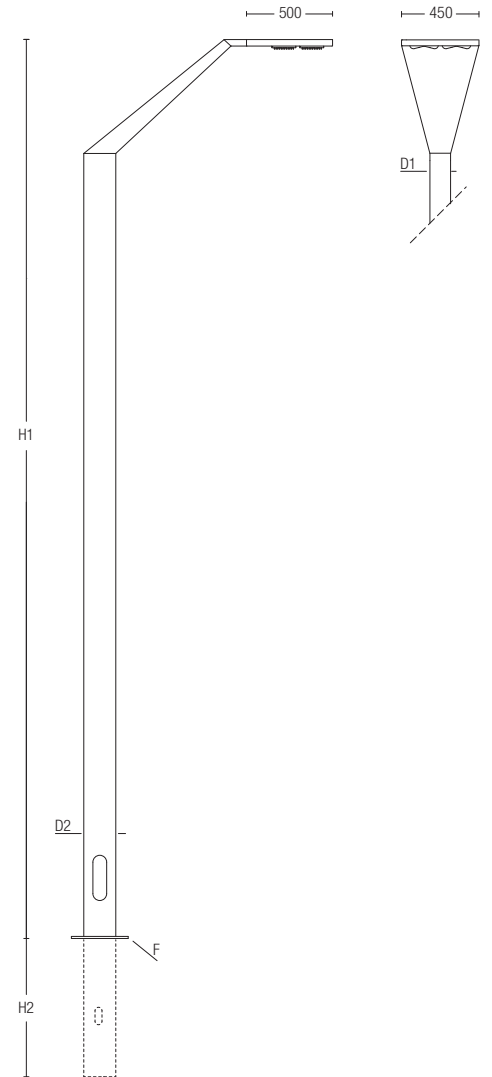
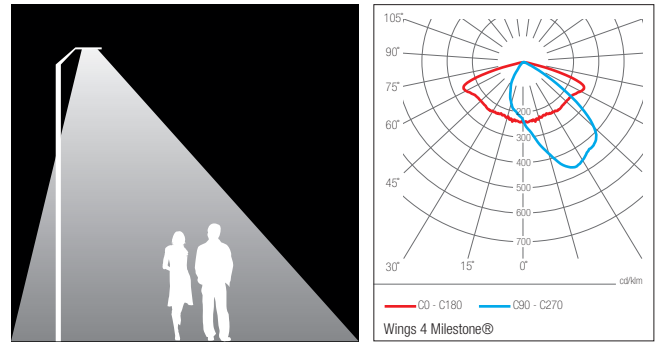
Surge protection (optional): 10kV

Operating temperature: -30°C - +55°C

Complies with European Standards EN 60598 and CE certified







**LUMINAIRE**

CODE	DESCRIPTION	POWER	LUMEN	COLOR TEMPERATURE
LL2012.672	Wings 2 Milestone®	70W	6800lm - 8000lm	3000K / 4000K
LL2012.674	Wings 4 Milestone®	140W	13600lm - 16000lm	3000K / 4000K

**POLES**

CODE	DESCRIPTION	H1	H2	D1	D2	ANCHORAGE	FLANGE COVER	CUT-OUT
PAFD.911.040	Aluminum Rectangle Pole Flanged	4000	-	120	186	90CJ005	C3N2C	51
PABD.911.040	Aluminum Rectangle Pole Buried	4000	800	120	186	-	-	51
PAFD.911.050	Aluminum Rectangle Pole Flanged	5000	-	120	186	90CJ005	C3N2C	51
PABD.911.050	Aluminum Rectangle Pole Buried	5000	1000	120	186	-	-	51
PAFD.911.060	Aluminum Rectangle Pole Flanged	6000	-	120	186	90CJ006	C3N2C	51
PABD.911.060	Aluminum Rectangle Pole Buried	6000	1000	120	186	-	-	51







# Tila

Ideal solution for roads and landscape areas

Modular structure with Heper's patented Milestone® LED module

Luminous flux: 13600lm - 16000lm

Color temperature: 3000K, 4000K

CRI 4000K > 70, 3000K > 80

Optimized road light distribution

Multifaceted micro-reflection system with anti-glare feature

Optimized PCB Design; aluminum PCB or FR-4 PCB with touchdown technology

Corrosion resistant aluminum housing

Electrostatic powder coating

Color: standard HM1 to HM5, optional RAL codes

IP66, IK08

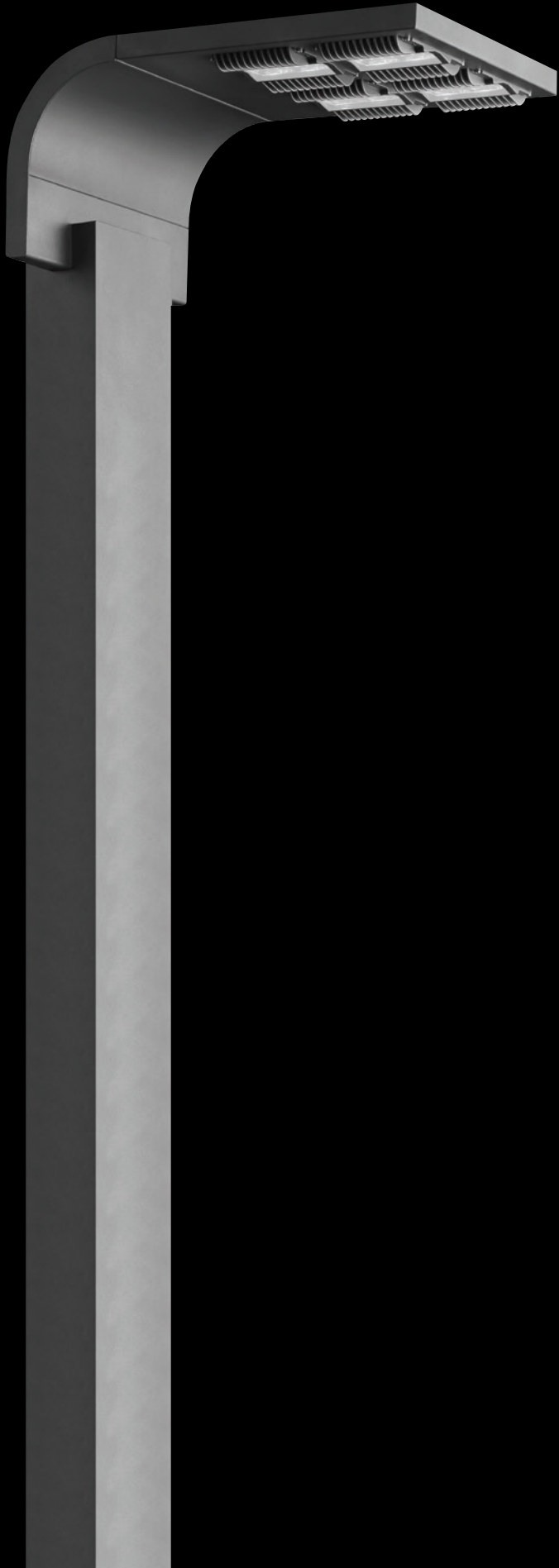
Safety class: CLASS I

Control system (optional): 1-10V, DALI, DynaDIM

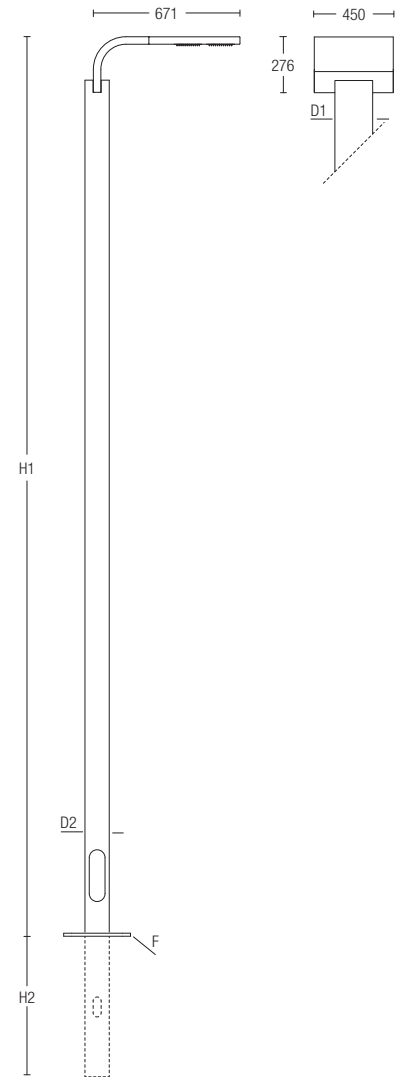
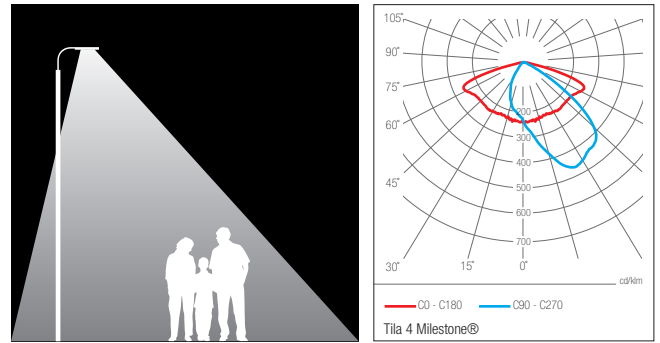
Surge protection (optional): 10kV

Operating temperature: -30°C - +55°C

Complies with European Standards EN 60598 and CE certified







**LUMINAIRE**

CODE	DESCRIPTION	POWER	LUMEN	COLOR TEMPERATURE
LL2013.674	Tila 4 Milestone®	140W	13600lm - 16000lm	3000K / 4000K

**POLES**

CODE	DESCRIPTION	H1	H2	D1	D2	ANCHORAGE	FLANGE COVER	CUT-OUT
PAFD.910.040	Aluminum Rectangle Pole Flanged	4000	-	186	120	90CJ005	C3N2C	51
PABD.910.040	Aluminum Rectangle Pole Buried	4000	800	186	120	-	-	51
PAFD.910.050	Aluminum Rectangle Pole Flanged	5000	-	186	120	90CJ005	C3N2C	51
PABD.910.050	Aluminum Rectangle Pole Buried	5000	1000	186	120	-	-	51
PAFD.910.060	Aluminum Rectangle Pole Flanged	6000	-	186	120	90CJ006	C3N2C	51
PABD.910.060	Aluminum Rectangle Pole Buried	6000	1000	186	120	-	-	51

# Tila S

Ideal solution for roads and landscape areas

Modular structure with Heper's patented Milestone® LED module

Luminous flux: from 3400lm up to 12000lm with 1, 2 and 3 Milestone® LED modules

Color temperature: 3000K, 4000K

Optimized road light distribution

Multifaceted micro-reflection system with anti-glare feature

CRI 4000K > 70, 3000K > 80

Optimized PCB Design; aluminum PCB or FR-4 PCB with touchdown technology

Corrosion resistant aluminum housing

Electrostatic powder coating

Color: standard HM1 to HM5, optional RAL codes

IP66, IK08

Safety class: CLASS I

Control system (optional): 1-10V, DALI, DynaDIM, AstroDIM

Surge protection (optional): 10kV

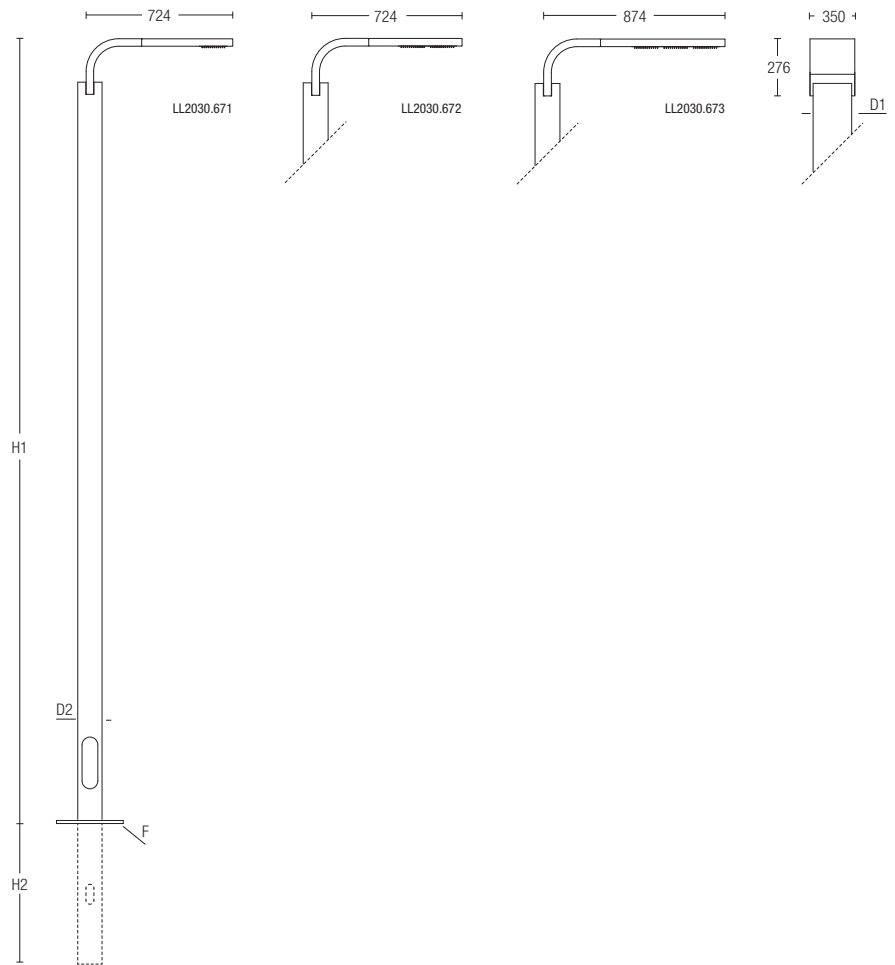
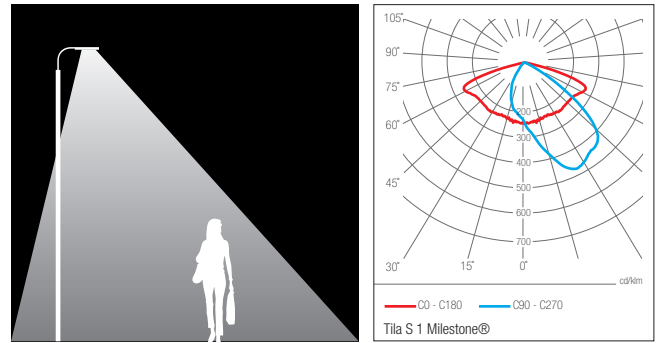
Operating temperature: -30°C - +55°C

Complies with European Standards EN 60598 and CE certified









LUMINAIRE

CODE	DESCRIPTION	POWER	LUMEN	COLOR TEMPERATURE
LL2030.671	Tila S 1 Milestone®	35W	3400lm - 4000lm	3000K / 4000K
LL2030.672	Tila S 2 Milestone®	70W	6800lm - 8000lm	3000K / 4000K
LL2030.673	Tila S 3 Milestone®	105W	10200lm - 12000lm	3000K / 4000K

POLES

CODE	DESCRIPTION	H1	H2	D1	D2	ANCHORAGE	FLANGE COVER	CUT-OUT
PAFD.916.030	Aluminum Rectangle Pole Flanged	3000	-	120	80	90AJ001	C3P2B	-
PABD.916.030	Aluminum Rectangle Pole Buried	3000	800	120	80	-	-	-
PAFD.919.040	Aluminum Rectangle Pole Flanged	4000	-	120	80	90AJ002	C3P2B	-
PABD.919.040	Aluminum Rectangle Pole Buried	4000	800	120	80	-	-	-

# Domino

Ideal solution for roads and landscape areas

Modular structure with Heper's patented Milestone® LED module

Luminous flux: from 3400lm up to 12000lm with 1, 2 and 3 Milestone® LED modules

Color temperature: 3000K, 4000K

Optimized road light distribution

Multifaceted micro-reflection system with anti-glare feature

CRI 4000K > 70, 3000K > 80

Optimized PCB Design; aluminum PCB or FR-4 PCB with touchdown technology

Corrosion resistant aluminum housing

Electrostatic powder coating

Color: standard HM1 to HM5, optional RAL codes

IP66, IK08

Safety class: CLASS I

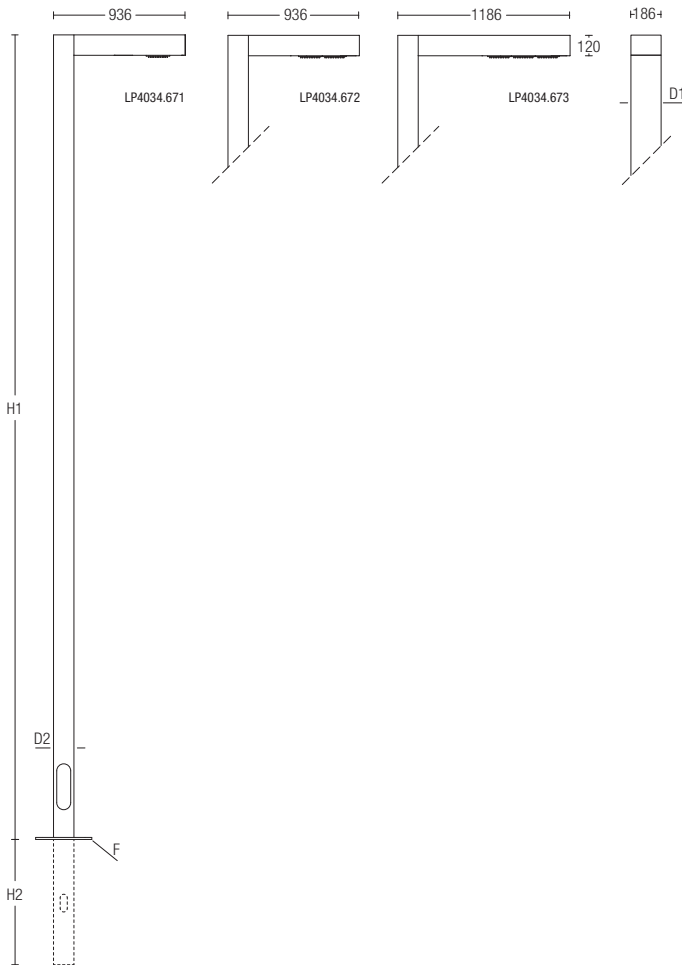
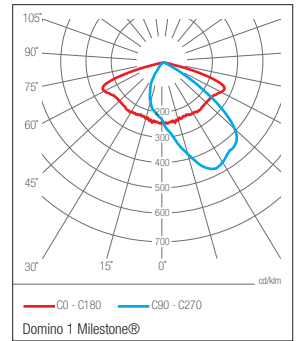
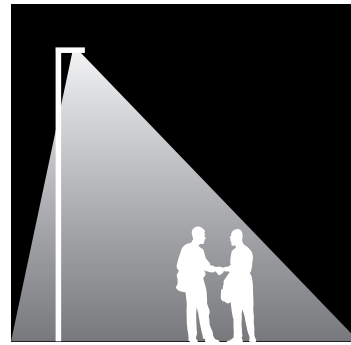
Control system (optional): 1-10V, DALI, DynaDIM, AstroDIM

Operating temperature: -30°C - +55°C

Complies with European Standards EN 60598 and CE certified







**LUMINAIRE**

CODE	DESCRIPTION	POWER	LUMEN	COLOR TEMPERATURE
LP4034.671	Domino 1 Milestone®	35W	3400lm - 4000lm	3000K / 4000K
LP4034.672	Domino 2 Milestone®	70W	6800lm - 8000lm	3000K / 4000K
LP4034.673	Domino 3 Milestone®	105W	10200lm - 12000lm	3000K / 4000K

**POLES**

CODE	DESCRIPTION	H1	H2	D1	D2	ANCHORAGE	FLANGE COVER	CUT-OUT
PAFD.910.030	Aluminum Rectangle Pole Flanged	3000	-	186	120	90CJ005	C3N2C	51
PABD.910.030	Aluminum Rectangle Pole Buried	3000	800	186	120	-	-	51
PAFD.910.040	Aluminum Rectangle Pole Flanged	4000	-	186	120	90CJ005	C3N2C	51
PABD.910.040	Aluminum Rectangle Pole Buried	4000	800	186	120	-	-	51
PAFD.910.050	Aluminum Rectangle Pole Flanged	5000	-	186	120	90CJ005	C3N2C	51
PABD.910.050	Aluminum Rectangle Pole Buried	5000	1000	186	120	-	-	51
PAFD.910.060	Aluminum Rectangle Pole Flanged	6000	-	186	120	90CJ006	C3N2C	51
PABD.910.060	Aluminum Rectangle Pole Buried	6000	1000	186	120	-	-	51





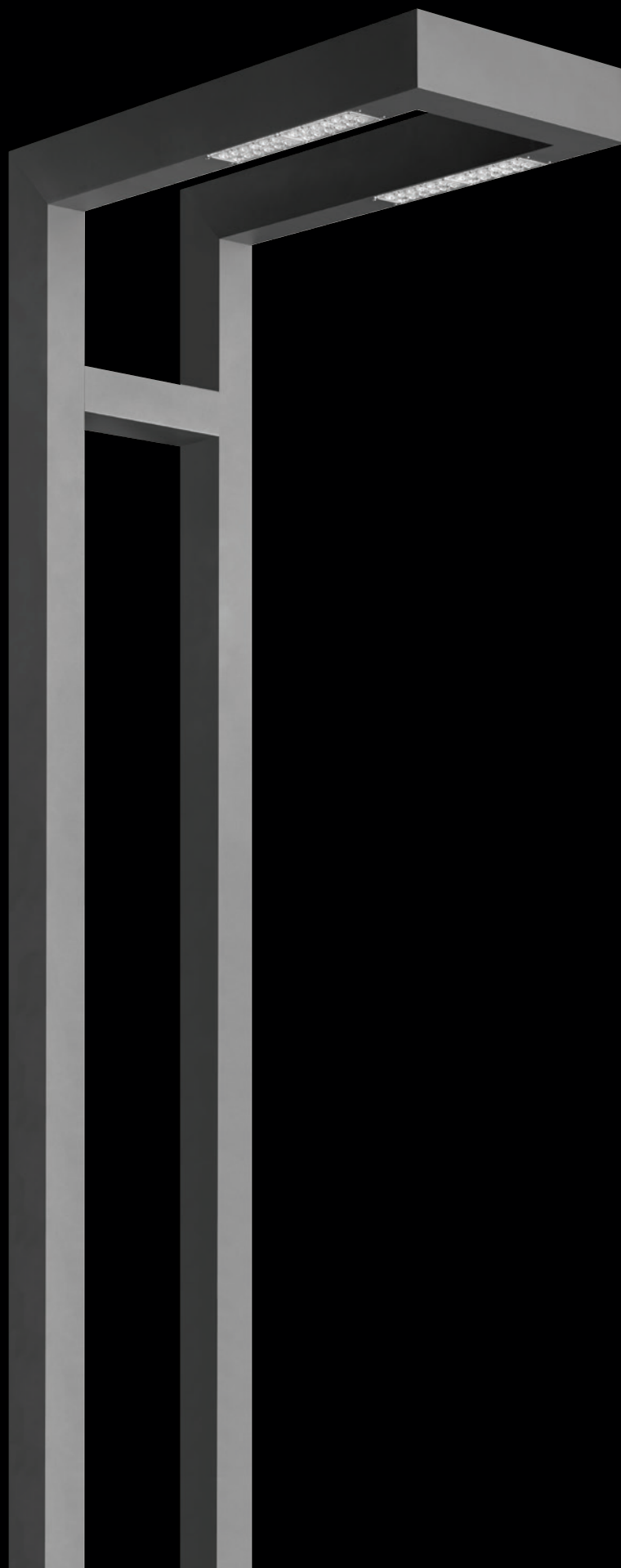
MILAS - BODRUM HAVALIYANI / AIRPORT



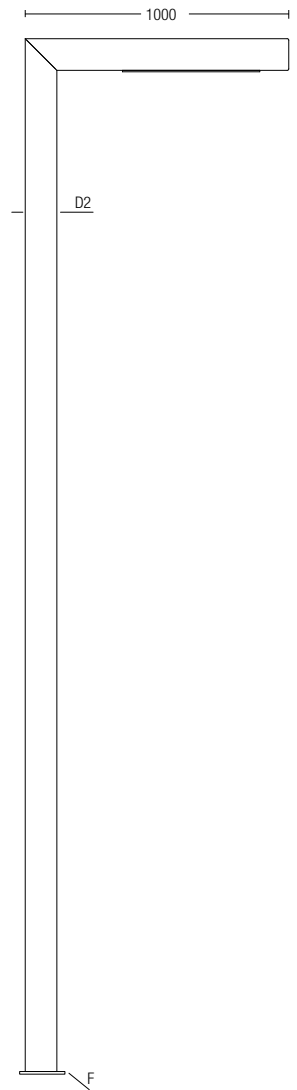
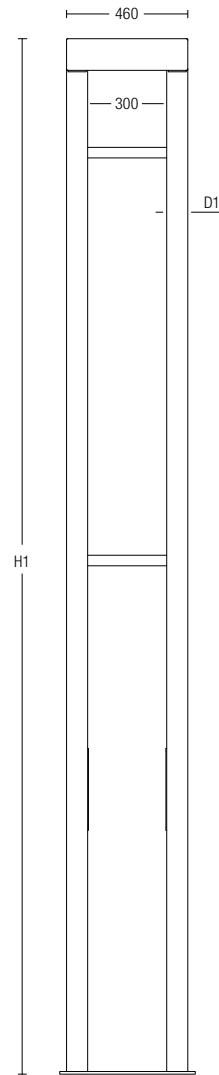
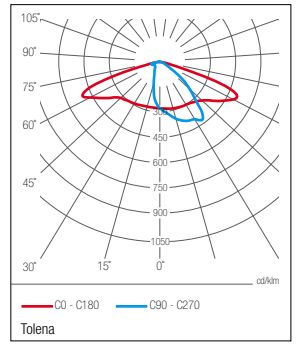
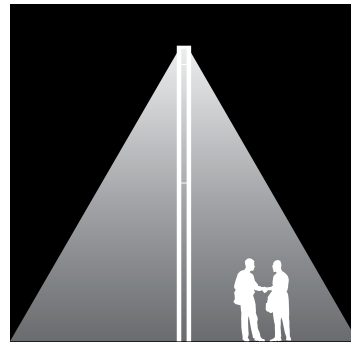
# Tolena

Ideal solution for landscape areas  
Structured with LED light source  
Luminous flux: 5000lm - 5200lm  
Color temperature: 3000K, 4000K  
CRI 4000K > 70, 3000K > 80  
Optimized road light distribution  
Corrosion resistant aluminum housing  
Electrostatic powder coating  
Color: standard HM1 to HM5, optional RAL codes  
IP65  
Safety class: CLASS I  
Control system (optional): 1-10V, DALI, DynaDIM  
Surge protection (optional): 10kV  
Operating temperature: -30°C - +55°C  
Complies with European Standards EN 60598 and CE certified









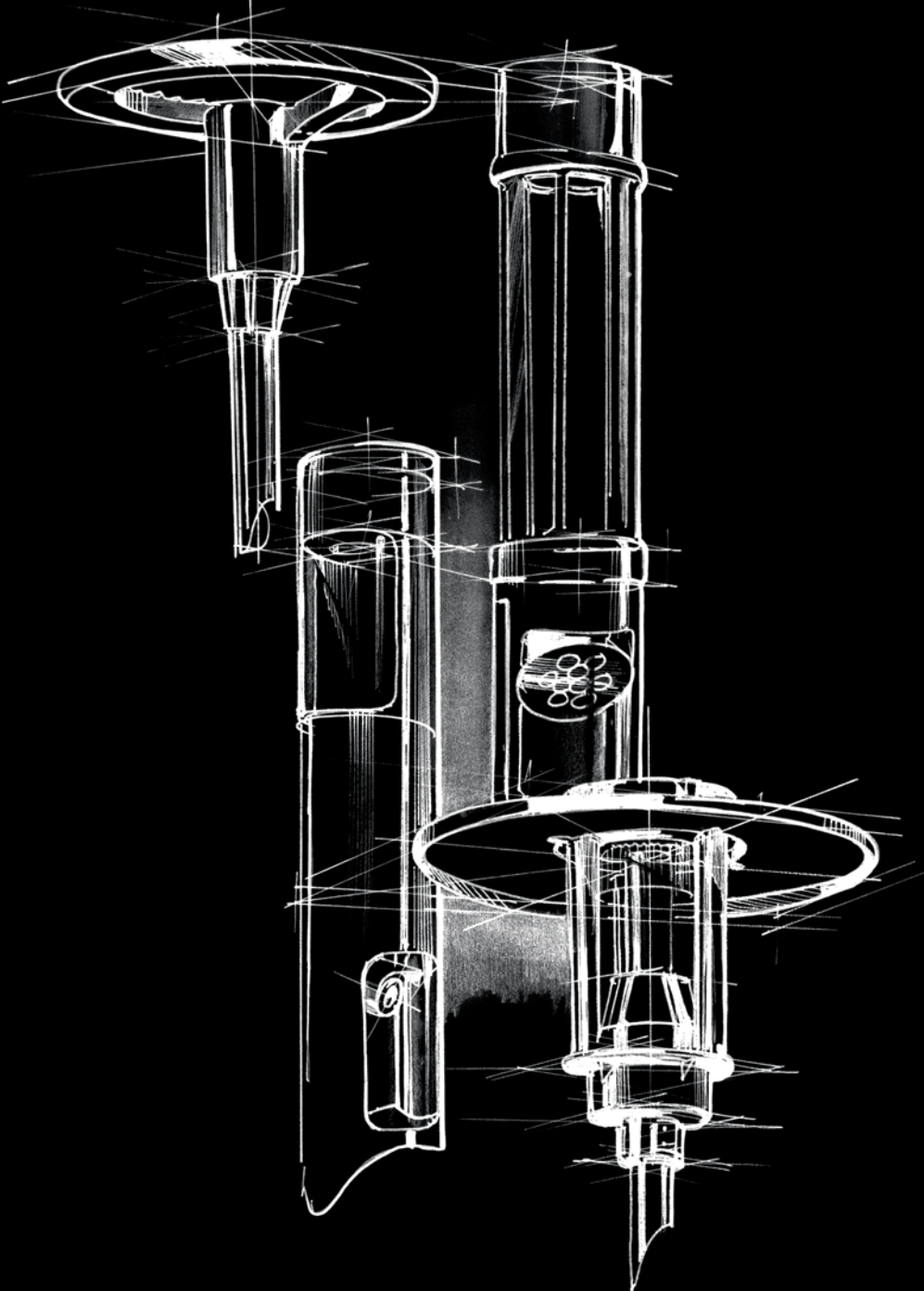
**LUMINAIRE**

CODE	DESCRIPTION	POWER	LUMEN	COLOR TEMPERATURE
LP4071.554	Tolena	54W	5000lm - 5200lm	3000K / 4000K

**POLES**

CODE	DESCRIPTION	H1	H2	D1	D2	ANCHORAGE	FLANGE COVER	CUT-OUT
PABE.928.040	Aluminum Rectangle Pole Buried	4000	1000	80	120	-	-	51

# ARCHITECTURAL LANDSCAPE



# Kreis

Ideal solution for landscape areas

Structured with LED light source

Luminous flux: 3500lm - 4000lm

Color temperature: 3000K, 4000K

CRI 4000K > 70, 3000K > 80

Symmetrical optimized light distribution

Corrosion resistant aluminum housing

Electrostatic powder coating

Color: standard HM1 to HM5, optional RAL codes

IP66, IK08

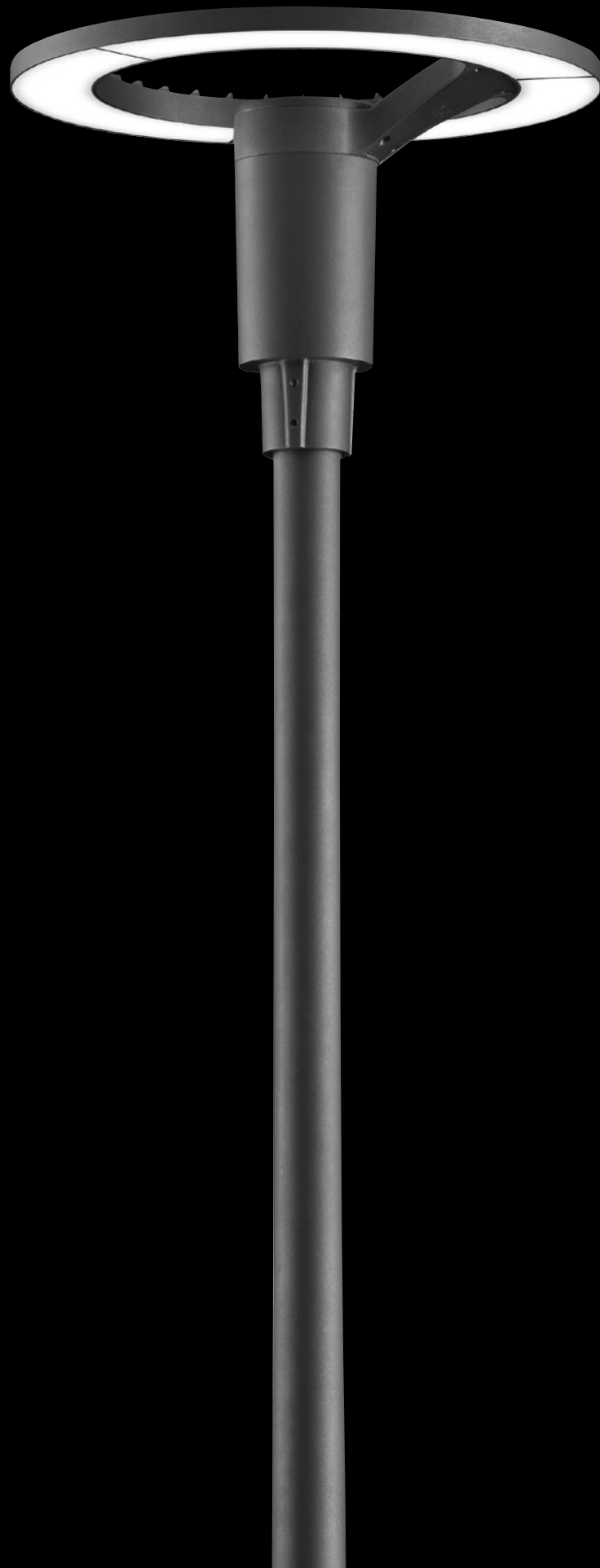
Safety class: CLASS I

Control system (standard): On/Off

Surge protection (optional): 10kV

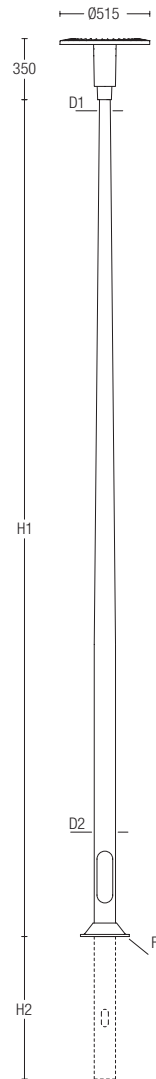
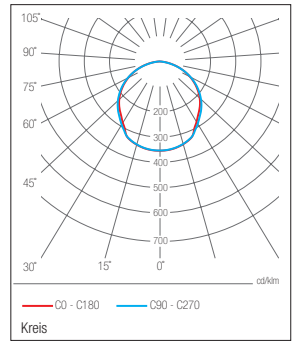
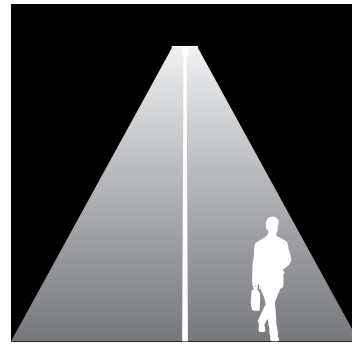
Operating temperature: -30°C - +55°C

Complies with European Standards EN 60598 and CE certified









**LUMINAIRE**

CODE	DESCRIPTION	POWER	LUMEN	COLOR TEMPERATURE
LL2031.511	Kreis	60W	3500lm - 4000lm	3000K / 4000K

**POLES**

CODE	DESCRIPTION	H1	H2	D1	D2	ANCHORAGE	FLANGE COVER	CUT-OUT
PAFK.005.040	Aluminum Conical Pole Flanged	4000	-	Ø60	Ø114	90BJ002	C1C2B	51
PABK.005.040	Aluminum Conical Pole Buried	4000	800	Ø60	Ø114	-	-	51



 Mercedes-Benz

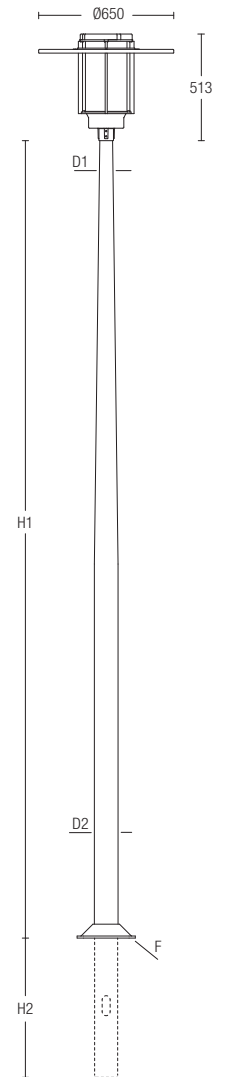
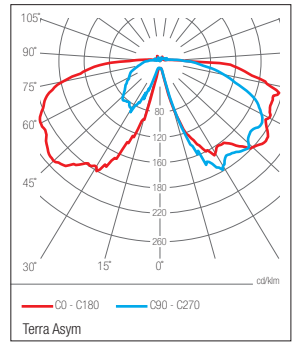
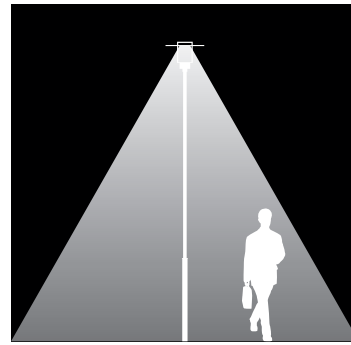


# Terra

Ideal solution for landscape areas  
Structured with LED light source  
Luminous flux: 1700lm - 2100lm  
Color temperature: 3000K - 4000K  
Asymmetrical or symmetrical optimized light distribution  
CRI > 70  
Corrosion resistant aluminum housing  
Electrostatic powder coating  
Color: standard HM1 to HM5, optional RAL codes  
IP65  
Safety class: CLASS II  
Control system (optional): StepDIM  
Operating temperature: -30°C - +55°C  
Complies with European Standards EN 60598 and CE certified







**LUMINAIRE**

CODE	DESCRIPTION	POWER	LUMEN	COLOR TEMPERATURE
LP4024.722	Terra Sym	27W	1700lm - 2100 lm	3000K / 4000K
LP4024.724	Terra Asym	27W	1700lm - 2100 lm	3000K / 4000K

**POLES**

CODE	DESCRIPTION	H1	H2	D1	D2	ANCHORAGE	FLANGE COVER	CUT-OUT
PAFK.001.030	Aluminum Conical Pole Flanged	3000	-	Ø60	Ø114	90BJ001	C1C2B	51
PABK.001.030	Aluminum Conical Pole Buried	3000	800	Ø60	Ø114	-	-	51
PAFK.005.040	Aluminum Conical Pole Flanged	4000	-	Ø60	Ø114	90BJ002	C1C2B	51
PABK.005.040	Aluminum Conical Pole Buried	4000	800	Ø60	Ø114	-	-	51





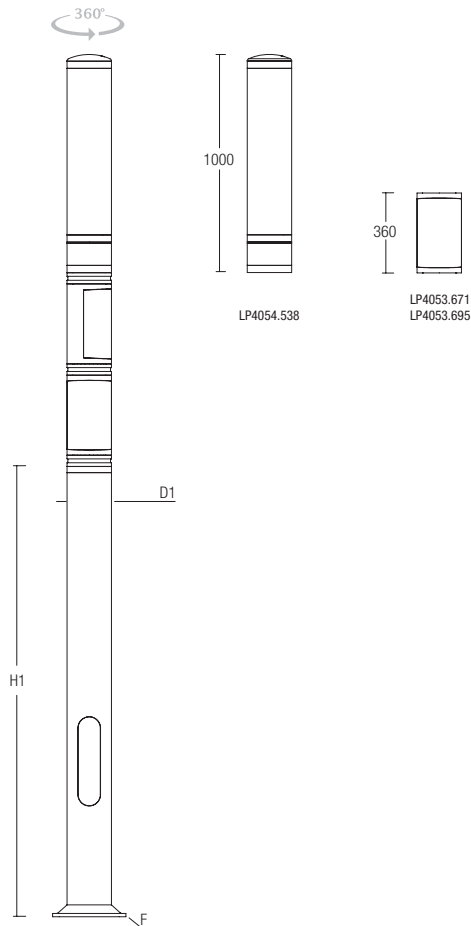
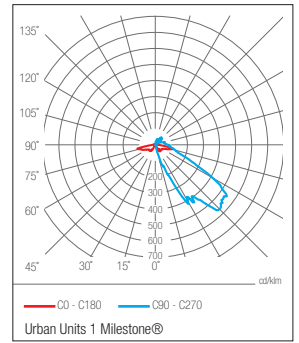
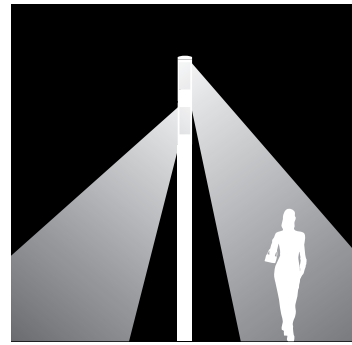


## Urban Units

Ideal solution for urban and landscape areas  
Modular structure with Heper's patented Milestone® or Hybrid LED module  
Diverse lighting solutions with different configurations of the modules  
Attachable features (camera, speaker, wi-fi modem) in the units  
Versatility with 360° rotation of modules  
Luminous flux: from 2500lm up to 5500lm  
Color temperature: 3000K, 4000K  
Asymmetrical or symmetrical optimized light distribution  
Multifaceted micro-reflection system with anti-glare feature  
CRI 4000K >70, 3000K > 80  
Optimized PCB-Design with Touchdown technology  
Corrosion resistant aluminum housing  
Electrostatic powder coating  
Color: standard HM1 to HM5, optional RAL codes  
IP65  
Safety class: CLASS I  
Control system (optional): 1-10V, DALI  
Operating temperature: -30°C - +55°C  
Complies with European Standards EN 60598 and CE certified







**LUMINAIRE**

CODE	DESCRIPTION	POWER	LUMEN	COLOR TEMPERATURE
LP4053.671	Urban Units 1 Milestone®	35W	2500lm - 2700lm	3000K / 4000K
LP4053.695	Urban Units Adjustable Floodlight	35W	2900lm - 3100lm	3000K / 4000K
LP4054.538	Urban Units Top Module Sym	70W	5300lm - 5500lm	3000K / 4000K

**POLES**

CODE	DESCRIPTION	H1	H2	D1	D2	ANCHORAGE	FLANGE COVER	CUT-OUT
PAFC.924.030	Aluminum Cylindrical Pole Flanged	3000	-	Ø200	-	*	*	51
PABC.924.030	Aluminum Cylindrical Pole Buried	3000	800	Ø200	-	*	*	51
PAFC.924.040	Aluminum Cylindrical Pole Flanged	4000	-	Ø200	-	*	*	51
PABC.924.040	Aluminum Cylindrical Pole Buried	4000	800	Ø200	-	*	*	51
PAFC.924.050	Aluminum Cylindrical Pole Flanged	5000	-	Ø200	-	*	*	51
PABC.924.050	Aluminum Cylindrical Pole Buried	5000	1000	Ø200	-	*	*	51

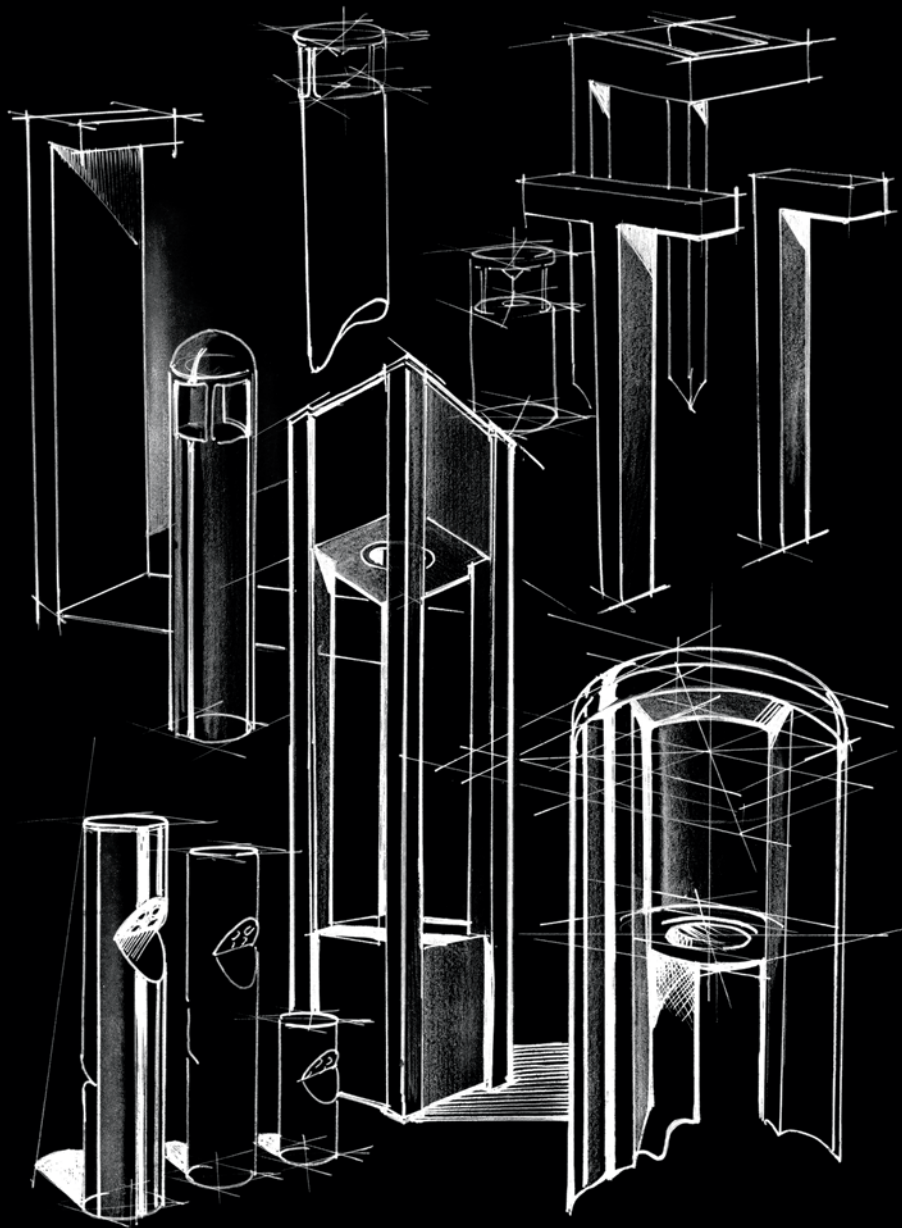
\* Anchorage details can be different according to the combination. Please contact us for further informations.





BOLLARD



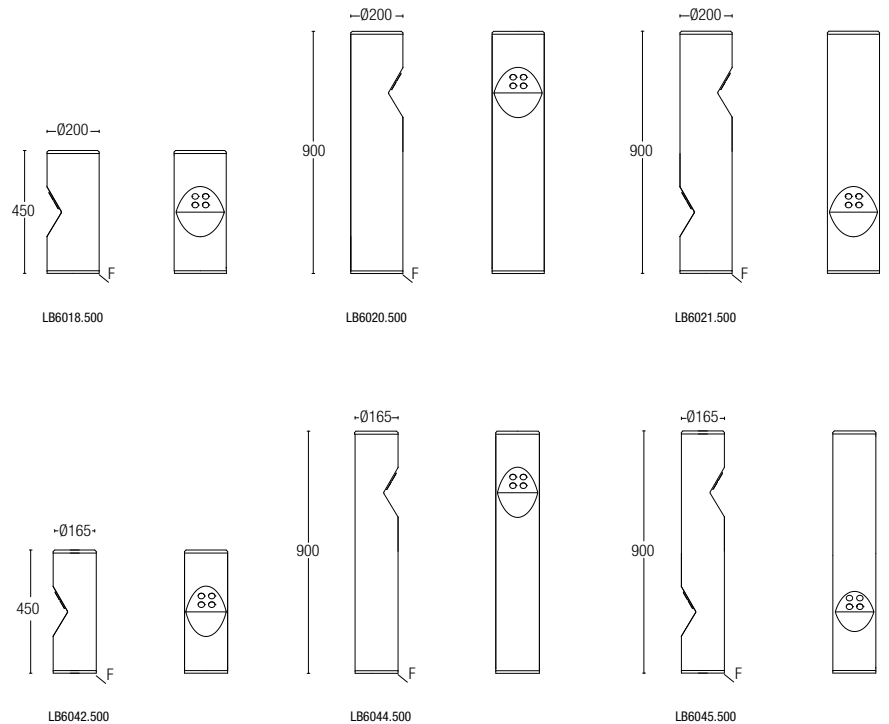
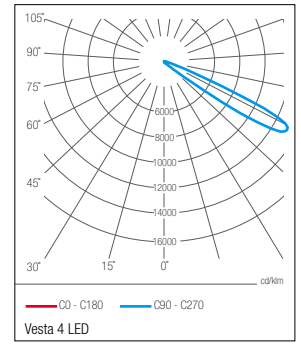


# Vesta

Ideal solution for landscape areas  
Structured with LED light source  
Luminous flux: from 275lm up to 800lm  
Color temperature: 3000K, 4000K  
Direct, one-sided or two-sided optimized light distribution  
CRI 4000K > 70, 3000K > 80  
Corrosion resistant aluminum housing  
Electrostatic powder coating  
Color: standard HM1 to HM5, optional RAL codes  
IP65, IK08  
Safety class: CLASS I  
Control system (standard): On/Off  
Operating temperature: -30°C - +55°C  
Complies with European Standards EN 60598 and CE certified







LUMINAIRE

CODE	DESCRIPTION	POWER	LUMEN	COLOR TEMPERATURE	ANCHORAGE
LB6018.500	Vesta 4 LED	6W	275lm - 400lm	3000K / 4000K	623J014
LB6020.500	Vesta 4 LED	6W	275lm - 400lm	3000K / 4000K	623J014
LB6021.500	Vesta 8 LED	10W	550lm - 800lm	3000K / 4000K	623J014
LB6042.500	Vesta S 4 LED	6W	275lm - 400lm	3000K / 4000K	629J014
LB6044.500	Vesta S 4 LED	6W	275lm - 400lm	3000K / 4000K	629J014
LB6045.500	Vesta S 8 LED	10W	550lm - 800lm	3000K / 4000K	629J014





10

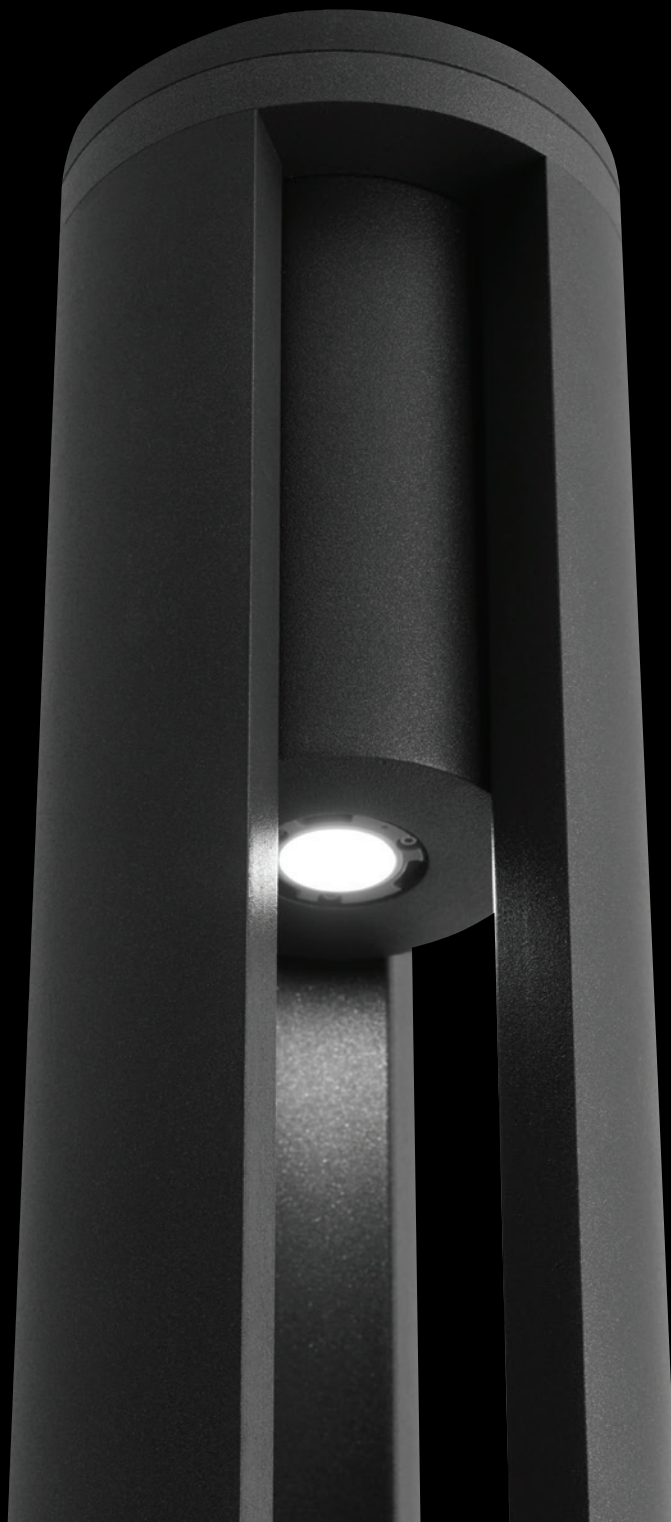
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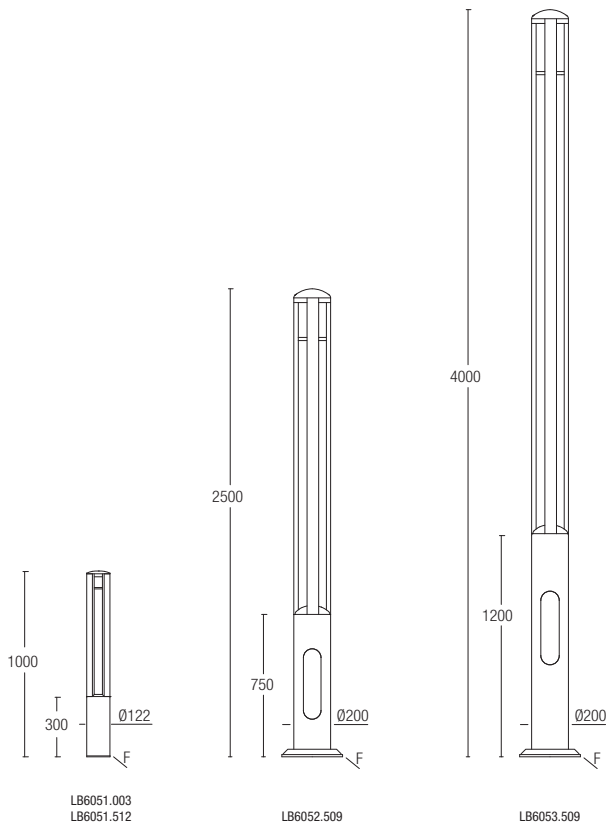
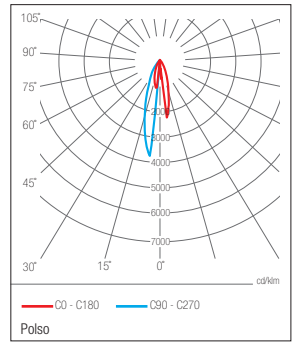
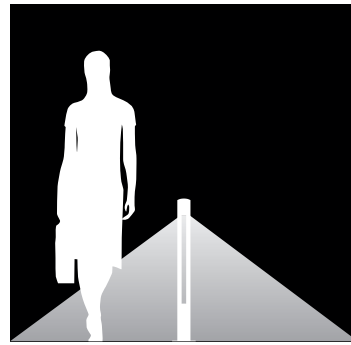
Ideal solution for landscape areas  
Structured with LED light source  
Luminous flux: from 100lm up to 2100lm  
Color temperature: 3000K, 4000K  
Symmetrical optimized light distribution  
Flexo CRI > 95  
CRI 4000K > 70, 3000K > 80  
Corrosion resistant aluminum housing  
Electrostatic powder coating  
Color: standard HM1 to HM5, optional RAL codes  
IP65, IK07  
Safety class: CLASS I  
Control system (optional): 1-10V, DALI  
Operating temperature: -30°C - +55°C  
Complies with European Standards EN 60598 and CE certified

Designed by PLANLUX









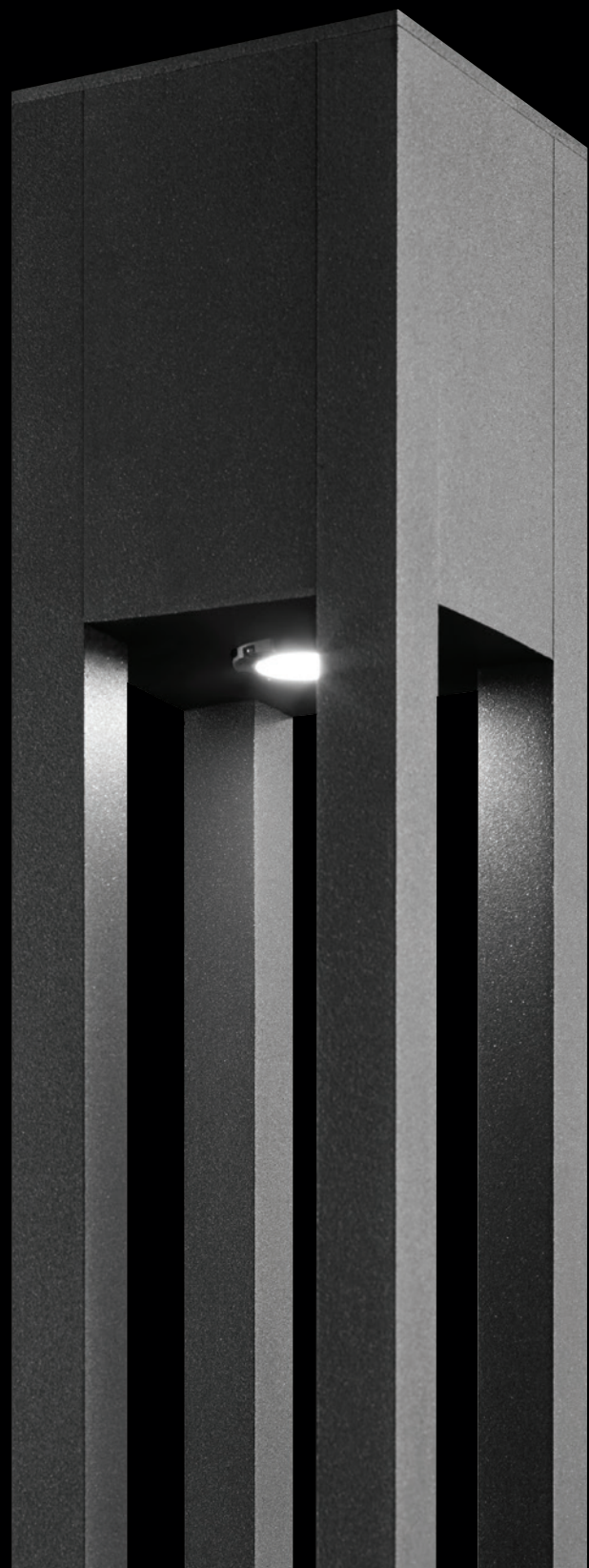
LUMINAIRE

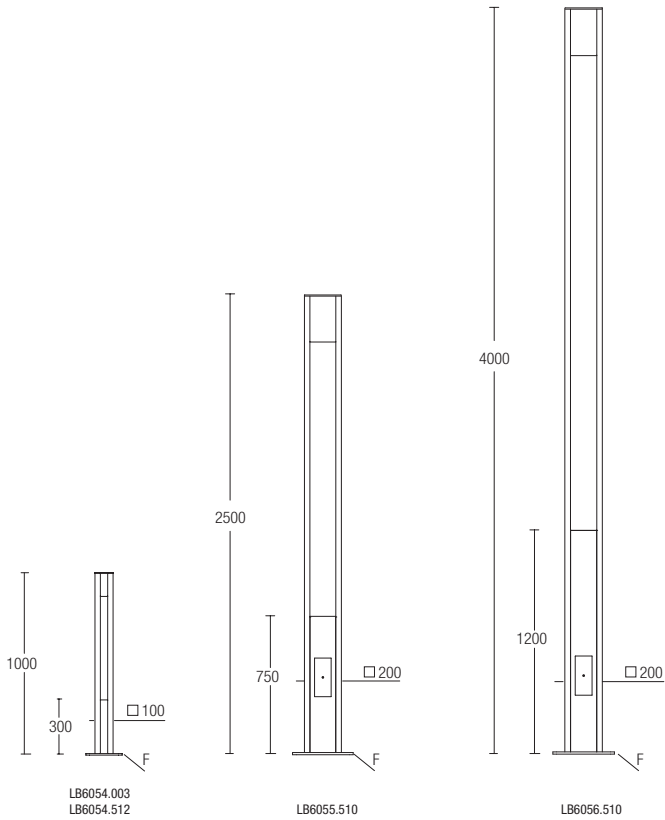
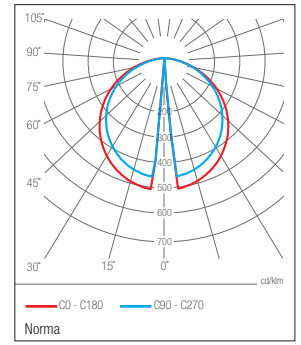
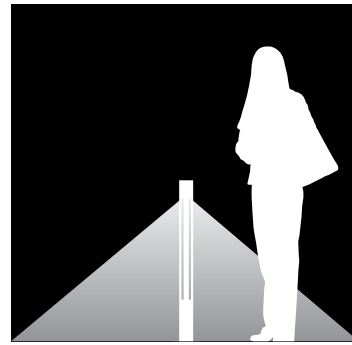
CODE	DESCRIPTION	POWER	LUMEN	COLOR TEMPERATURE	ANCHORAGE
LB6051.003	Polso Flexo S	7.5W	100lm - 150lm	3000K / 4000K	627J014
LB6051.512	Polso S	9W	400lm - 500lm	3000K / 4000K	627J014
LB6052.509	Polso	28W	1400lm - 1550lm	3000K / 4000K	90CJ001
LB6053.509	Polso L	40W	1900lm - 2100lm	3000K / 4000K	90CJ002

# Norma

Ideal solution for landscape areas  
Structured with LED light source  
Luminous flux: from 100lm up to 2800lm  
Color temperature: 3000K, 4000K  
Symmetrical optimized light distribution  
Flexo CRI > 95  
CRI 4000K > 70, 3000K > 80  
Corrosion resistant aluminum housing  
Electrostatic powder coating  
Color: standard HM1 to HM5, optional RAL codes  
IP65, IK07  
Safety class: CLASS I  
Control system (optional): 1-10V, DALI  
Operating temperature: -30°C - +55°C  
Complies with European Standards EN 60598 and CE certified







LUMINAIRE

CODE	DESCRIPTION	POWER	LUMEN	COLOR TEMPERATURE	ANCHORAGE
LB6054.003	Norma Flexo S	7.5W	100lm - 150lm	3000K / 4000K	90LJ014
LB6054.512	Norma S	9W	400lm - 500lm	3000K / 4000K	90LJ014
LB6055.510	Norma	38W	1800lm - 2000lm	3000K / 4000K	90KJ001
LB6056.510	Norma L	49W	2600lm - 2800lm	3000K / 4000K	900J004





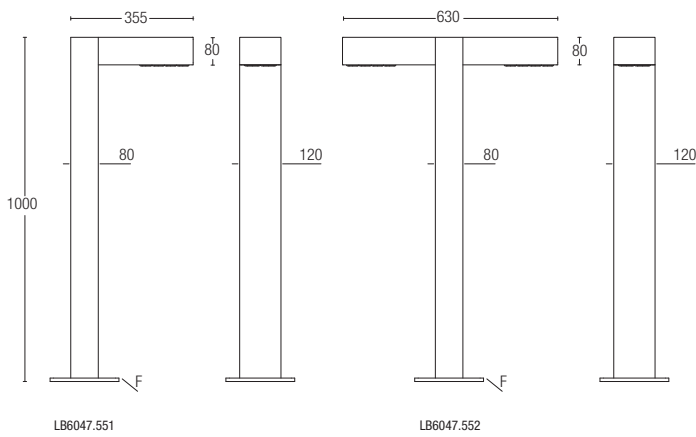
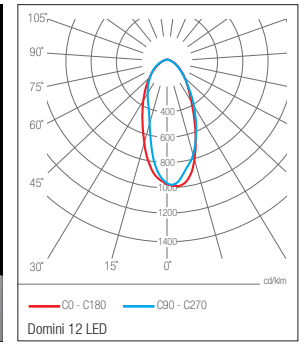
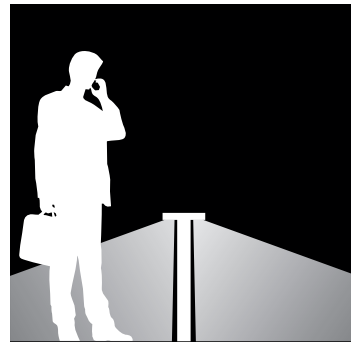


# Domini

Ideal solution for landscape areas  
Structured with LED light source  
Luminous flux: from 1400lm up to 3600lm  
Color temperature: 3000K, 4000K  
Asymmetrical optimized light distribution  
CRI 4000K > 70, 3000K > 80  
Corrosion resistant aluminum housing  
Electrostatic powder coating  
Color: standard HM1 to HM5, optional RAL codes  
IP65  
Safety class: CLASS I  
Control system standard: On/Off  
Operating temperature: -30°C - +55°C  
Complies with European Standards EN 60598 and CE certified





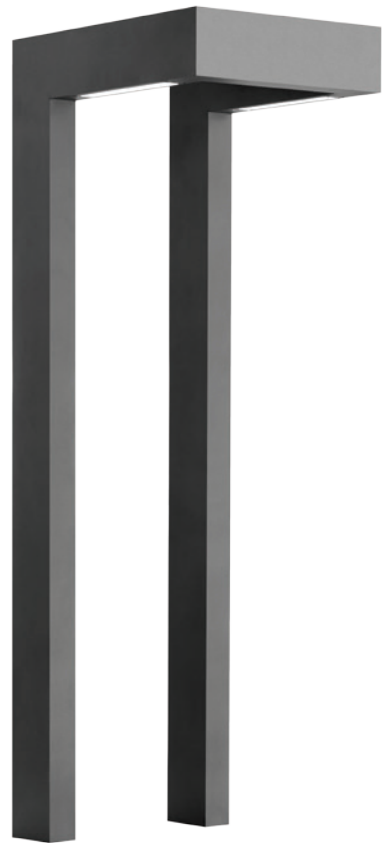


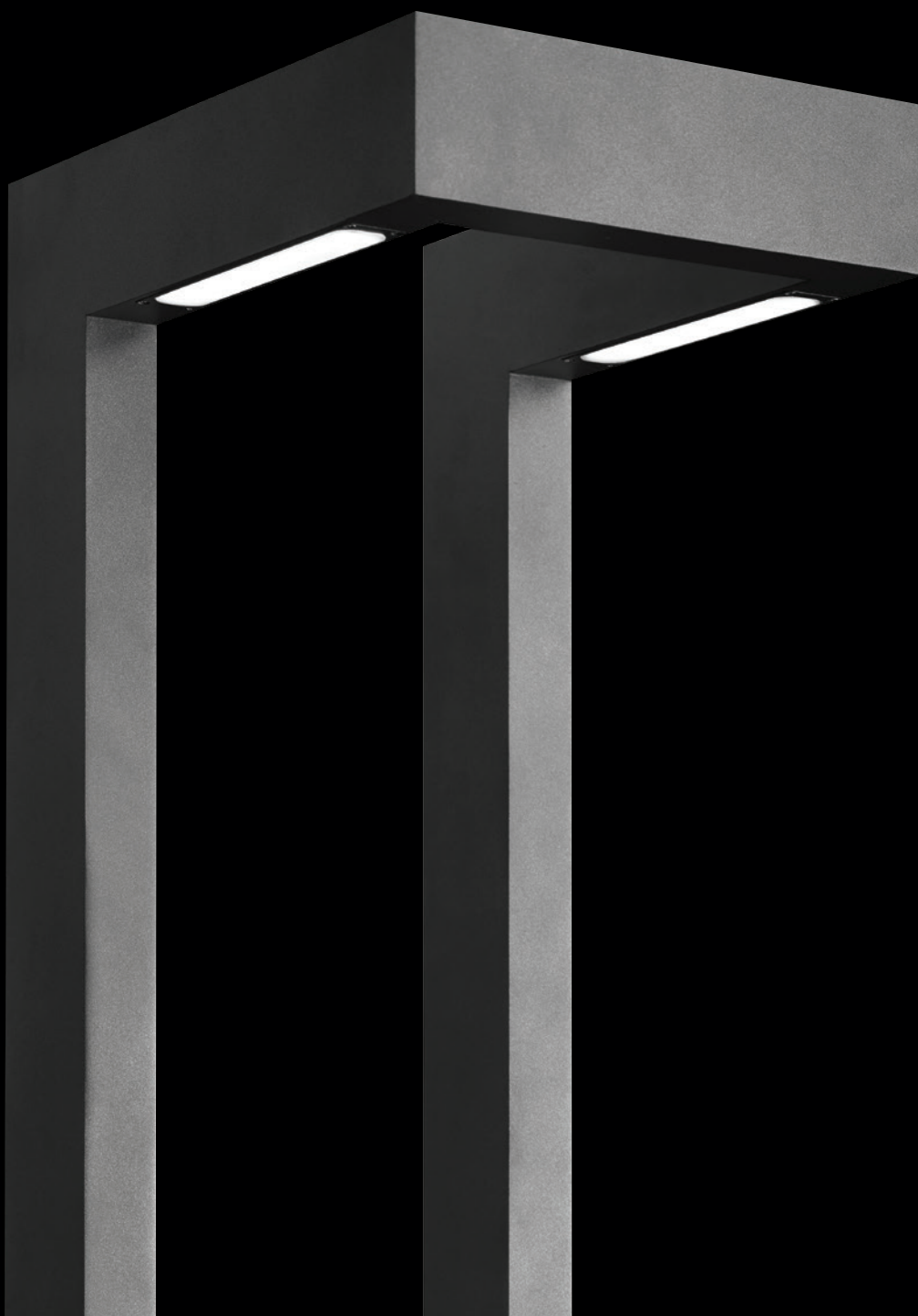
LUMINAIRE

CODE	DESCRIPTION	POWER	LUMEN	COLOR TEMPERATURE	ANCHORAGE
LB6047.551	Domini 12 LED	14W	1400lm - 1800lm	3000K / 4000K	90AJ001
LB6047.552	Domini 24 LED	28W	2800lm - 3600lm	3000K / 4000K	90AJ001

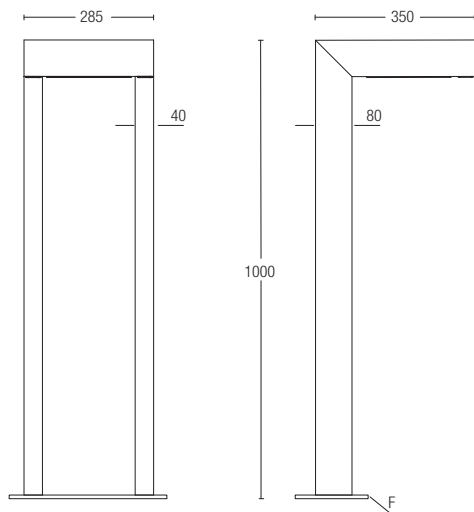
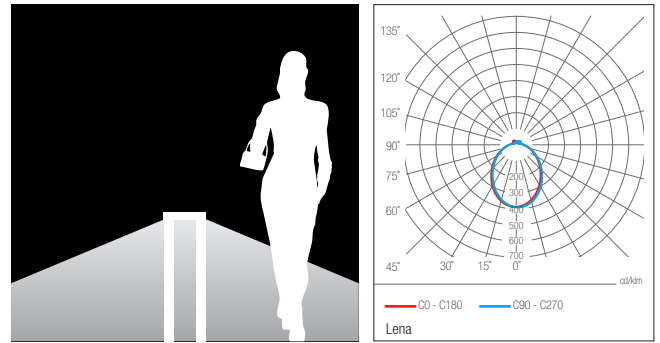
# Lena

Ideal solution for landscape areas  
Structured with LED light source  
Luminous flux: 600lm - 800lm  
Color temperature: 3000K, 4000K  
Asymmetrical optimized light distribution  
CRI 4000K > 70, 3000K > 80  
Corrosion resistant aluminum housing  
Electrostatic powder coating  
Color: standard HM1 to HM5, optional RAL codes  
IP65  
Safety class: CLASS I  
Control system (standard): On/Off  
Operating temperature: -30°C - +55°C  
Complies with European Standards EN 60598 and CE certified









LUMINAIRE

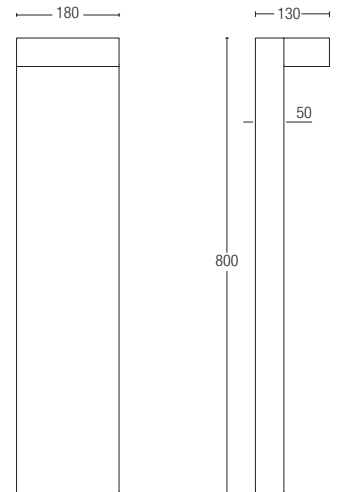
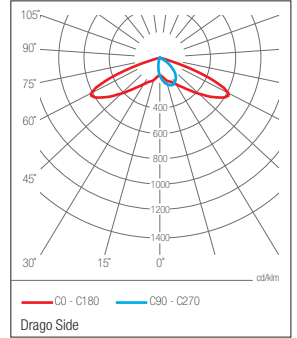
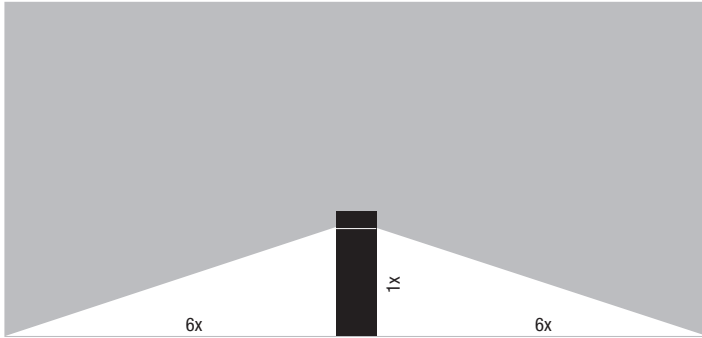
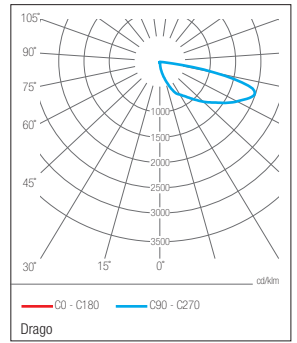
CODE	DESCRIPTION	POWER	LUMEN	COLOR TEMPERATURE	ANCHORAGE
LB6049.563	Lena	15W	600lm - 800lm	3000K / 4000K	626J014

# Drago

Ideal solution for landscape areas  
Structured with Dyno LED module  
Luminous flux: from 300lm up to 650lm  
Color temperature: 3000K, 4000K  
Linear front or side optimized light distribution  
Multifaceted micro-reflection system with anti-glare feature  
CRI 4000K > 70, 3000K > 80  
Corrosion resistant aluminum housing  
Electrostatic powder coating  
Color: standard HM1 to HM5, optional RAL codes  
IP65, IK08  
Safety class: CLASS II  
Control system (standard): On/Off  
Operating temperature: -30°C - +55°C  
Complies with European Standards EN 60598 and CE certified







LUMINAIRE

CODE	DESCRIPTION	POWER	LUMEN	COLOR TEMPERATURE	ANCHORAGE
LB6048.575	Drago	10W	600lm - 650lm	3000K / 4000K	628I000
LB6048.585	Drago Side	5W	300lm - 325lm	3000K / 4000K	628I000

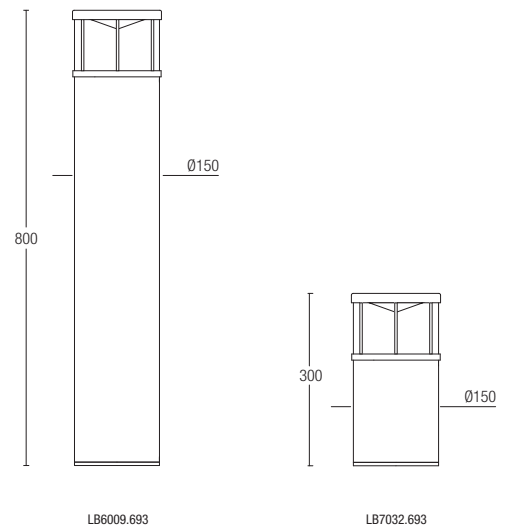
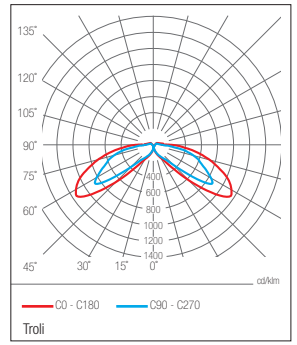
# Troli

Ideal solution for landscape areas  
Structured with Hybrid LED module  
Luminous flux: from 300lm up to 350lm  
Color temperature: 3000K, 4000K  
Symmetrical optimized light distribution  
Multifaceted micro-reflection system  
CRI 4000K > 70, 3000K > 80  
Corrosion resistant aluminum housing  
Electrostatic powder coating  
Color: standard HM1 to HM5, optional RAL codes  
IP65  
Safety class: CLASS I  
Control system (standard): On/Off  
Operating temperature: -30°C - +55°C  
Complies with European Standards EN 60598 and CE certified









LUMINAIRE

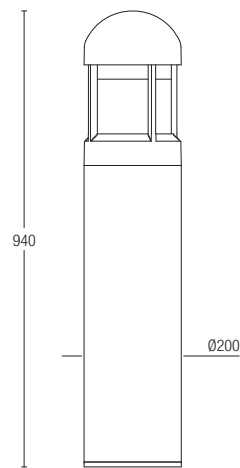
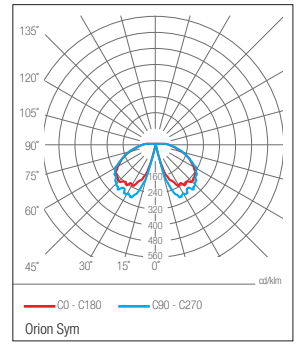
CODE	DESCRIPTION	POWER	LUMEN	COLOR TEMPERATURE	ANCHORAGE
LB6009.693	Troli	9W	300lm - 350lm	3000K / 4000K	612J014
LB7032.693	Troli S	9W	300lm - 350lm	3000K / 4000K	612J014

# Orion

Ideal solution for landscape areas  
Structured with LED light source  
Luminous flux: from 1000lm up to 1400lm  
Color temperature: 3000K, 4000K  
Asymmetrical or symmetrical optimized light distribution  
CRI > 70  
Corrosion resistant aluminum housing  
Electrostatic powder coating  
Color: standard HM1 to HM5, optional RAL codes  
IP65  
Safety class: CLASS II  
Control system (optional): StepDIM  
Operating temperature: -30°C - +55°C  
Complies with European Standards EN 60598 and CE certified







LUMINAIRE

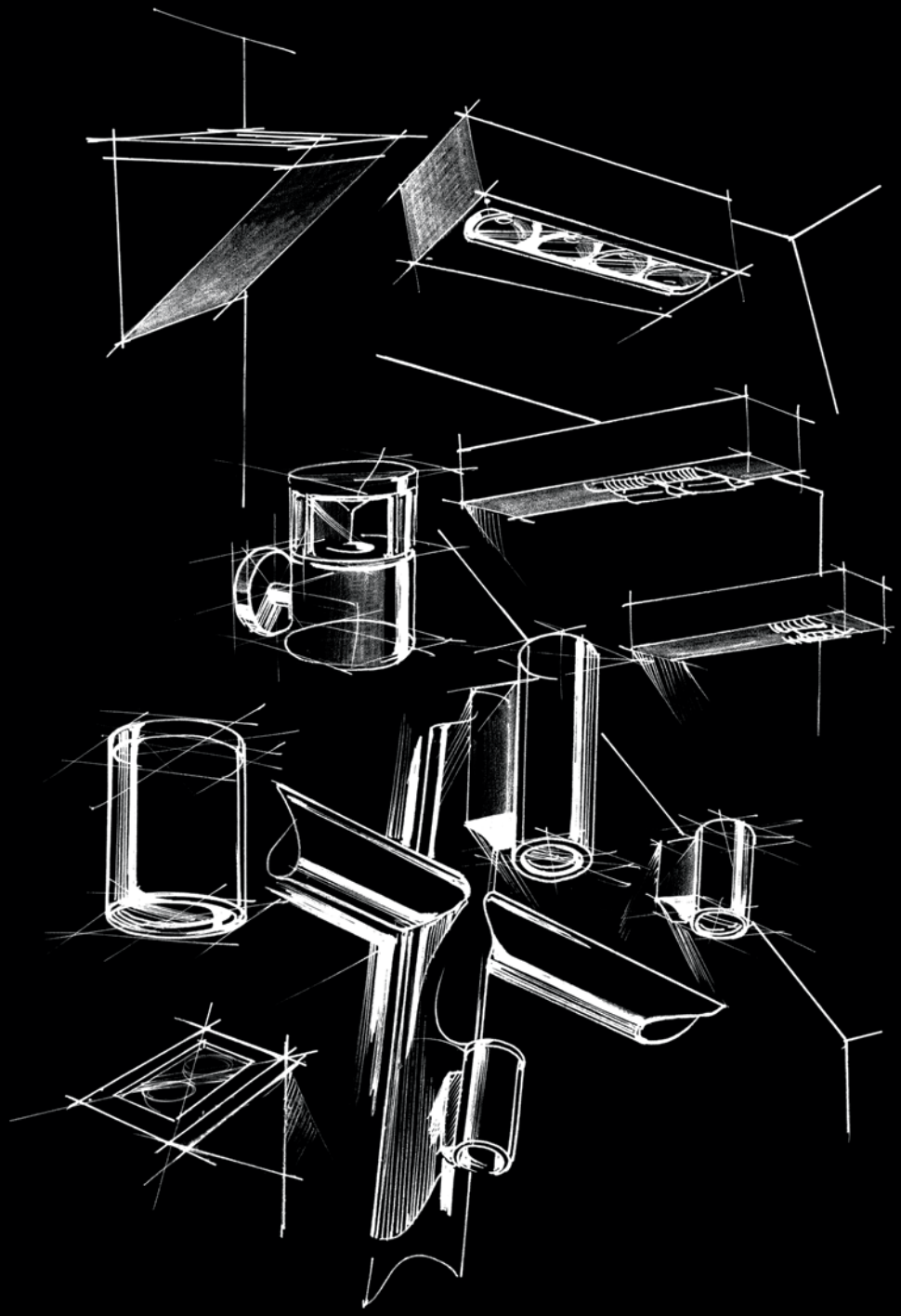
CODE	DESCRIPTION	POWER	LUMEN	COLOR TEMPERATURE	ANCHORAGE
LB6011.722	Orion Sym	27W	1000lm - 1400lm	3000K / 4000K	623J014
LB6011.724	Orion Asym	27W	1000lm - 1400lm	3000K / 4000K	623J014





WALL





# Viva

Ideal solution for architectural facades

Structured with LED source

Luminous flux: 2300lm - 2700lm

Color temperature: 3000K, 4000K

Beam angle options: 10°, 25°, 40°, 60°

CRI 4000K > 70, 3000K > 80

Corrosion resistant aluminum housing

Electrostatic powder coating

Color: standard HM1 to HM5, optional RAL codes

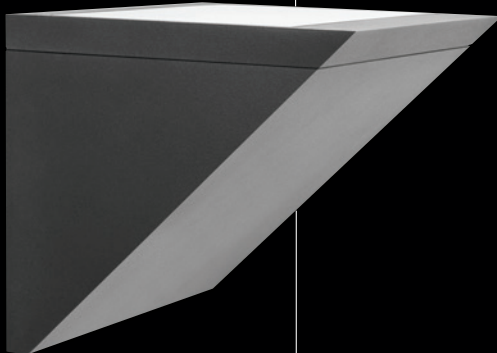
IP65, IK08

Safety class: CLASS I

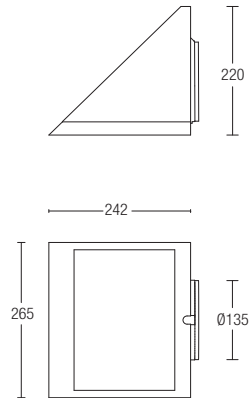
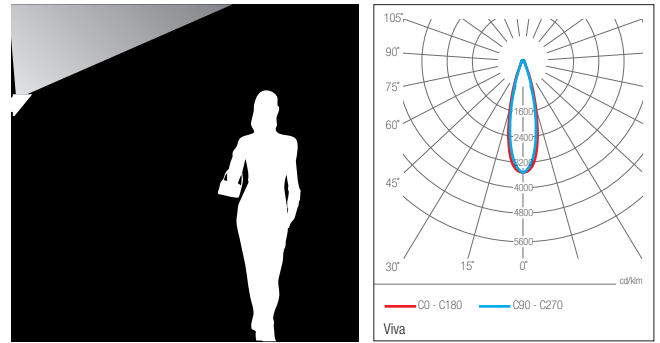
Control system (standard): On/Off

Operating temperature: -30°C - +55°C

Complies with European Standards EN 60598 and CE certified







LUMINAIRE

CODE	DESCRIPTION	POWER	LUMEN	COLOR TEMPERATURE
LW7010.564	Viva 10°	30W	2300lm - 2700lm	3000K / 4000K

# Dogo

Ideal solution for architectural facades

Structured with Dyno LED module

Luminous flux: 300lm up to 650lm

Color temperature: 3000K, 4000K

Linear front or side optimized light distribution

Multifaceted micro-reflection system with anti-glare feature

CRI 4000K > 70, 3000K > 80

Corrosion resistant aluminum housing

Electrostatic powder coating

Color: standard HM1 to HM5, optional RAL codes

IP65, IK08

Safety class: CLASS II

Control system (standard): On/Off

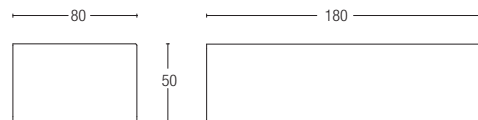
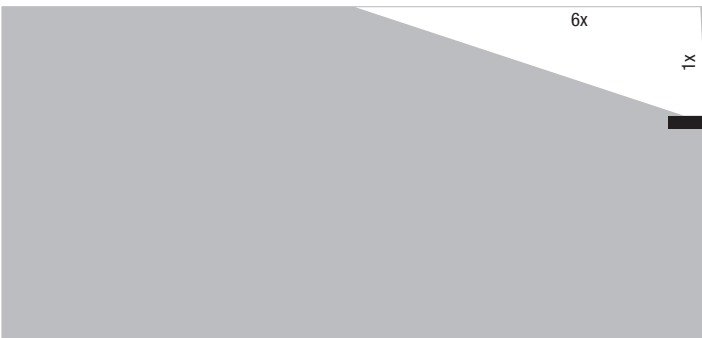
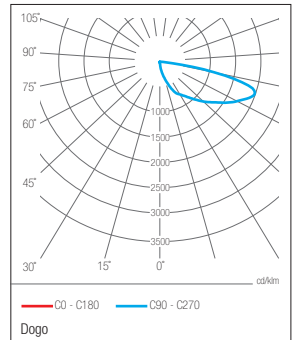
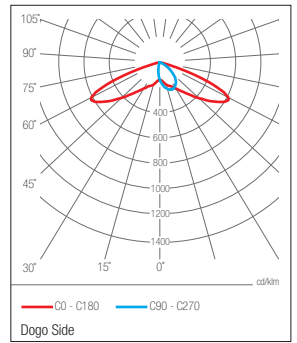
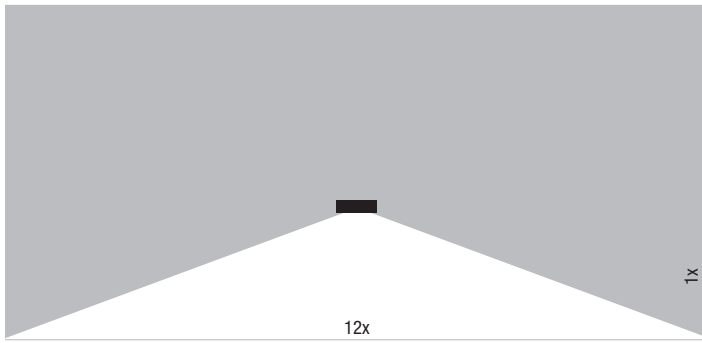
Operating temperature: -30°C - +55°C

Complies with European Standards EN 60598 and CE certified









LUMINAIRE

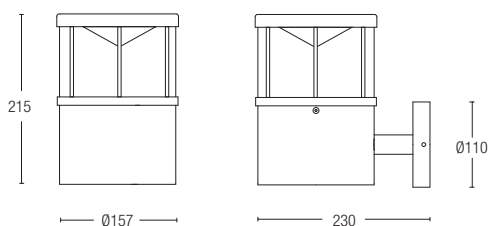
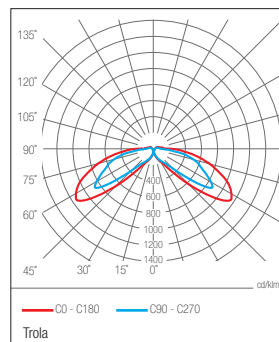
CODE	DESCRIPTION	POWER	LUMEN	COLOR TEMPERATURE
LW6048.575	Dogo	10W	600lm - 650lm	3000K / 4000K
LW6048.585	Dogo Side	5W	300lm - 325lm	3000K / 4000K

# Trola

Ideal solution for architectural facades  
Structured with Hybrid LED module  
Luminous flux: from 300lm up to 350lm  
Color temperature: 3000K, 4000K  
Symmetrical optimized light distribution  
Multifaceted micro-reflection system  
CRI 4000K > 70, 3000K > 80  
Corrosion resistant aluminum housing  
Electrostatic powder coating  
Color: standard HM1 to HM5, optional RAL codes  
IP65  
Safety class: CLASS I  
Control system (standard): On/Off  
Operating temperature: -30°C - +55°C  
Complies with European Standards EN 60598 and CE certified







LUMINAIRE

CODE	DESCRIPTION	POWER	LUMEN	COLOR TEMPERATURE
LW7032.693	Trola	9W	300lm - 350lm	3000K / 4000K

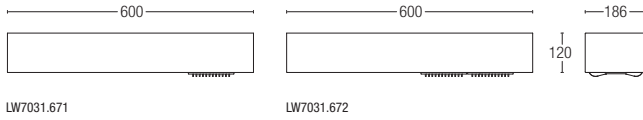
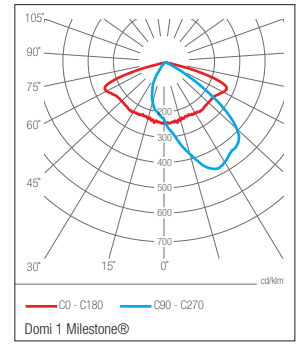
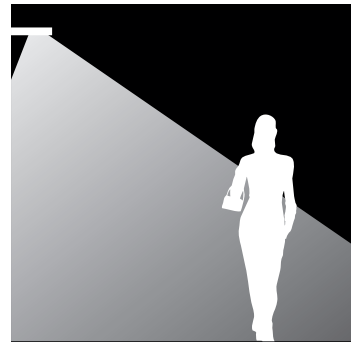
# Domi

Ideal solution for architectural facades  
Modular structure with Heper's patented Milestone® LED module  
Luminous flux: from 3400lm up to 8000lm with 1 and 2 Milestone® LED modules  
Color temperature: 3000K, 4000K  
Asymmetrical optimized light distribution  
Multifaceted micro-reflection system with anti-glare feature  
CRI 4000K > 70, 3000K > 80  
Optimized PCB Design; aluminum PCB or FR-4 PCB with touchdown technology  
Corrosion resistant aluminum housing  
Electrostatic powder coating  
Color: standard HM1 to HM5, optional RAL codes  
IP66, IK08  
Safety class: CLASS I  
Control system (optional): 1-10V, AstroDIM  
Operating temperature: -30°C - +55°C  
Complies with European Standards EN 60598 and CE certified



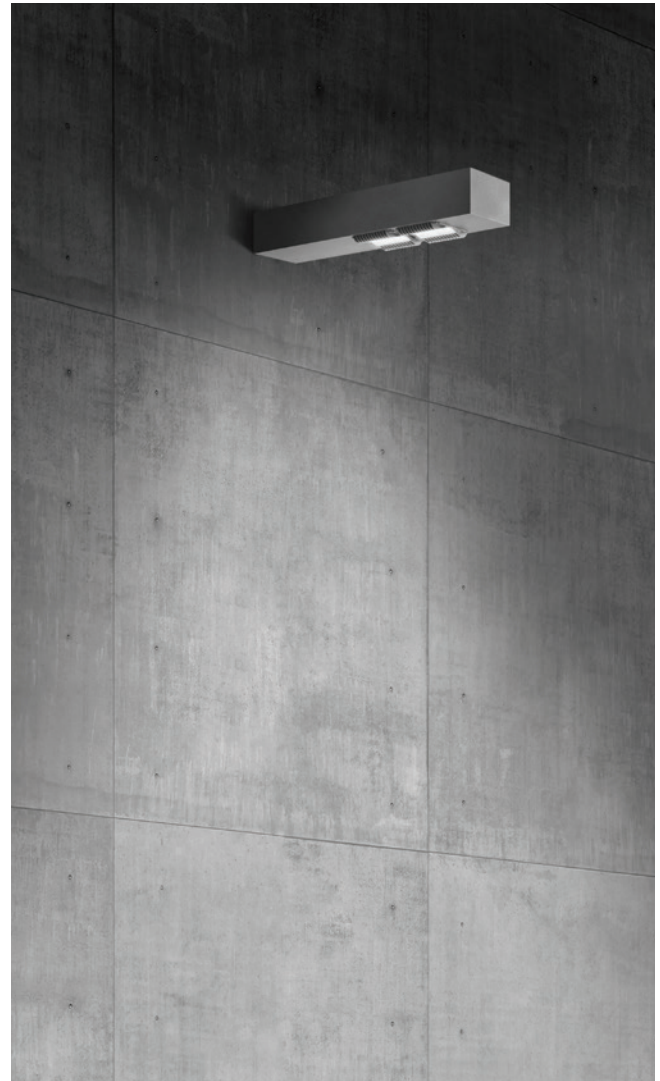
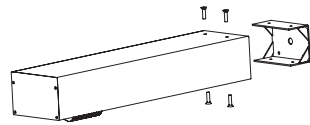






LW7031.671

LW7031.672



LUMINAIRE

CODE	DESCRIPTION	POWER	LUMEN	COLOR TEMPERATURE
LW7031.671	Domi 1 Milestone®	35W	3400lm - 4000lm	3000K / 4000K
LW7031.672	Domi 2 Milestone®	70W	6800lm - 8000lm	3000K / 4000K

# Pina

Ideal solution for architectural facades

Structured with Flexo LED module

Luminous flux: from 350lm up to 800lm

Color temperature: 3000K, 4000K

Flexo beam angle options: 10°, 25°, 36°, 60°

CRI > 95

Corrosion resistant aluminum housing

Electrostatic powder coating

Color: standard RAL 7022

IP54, IK05

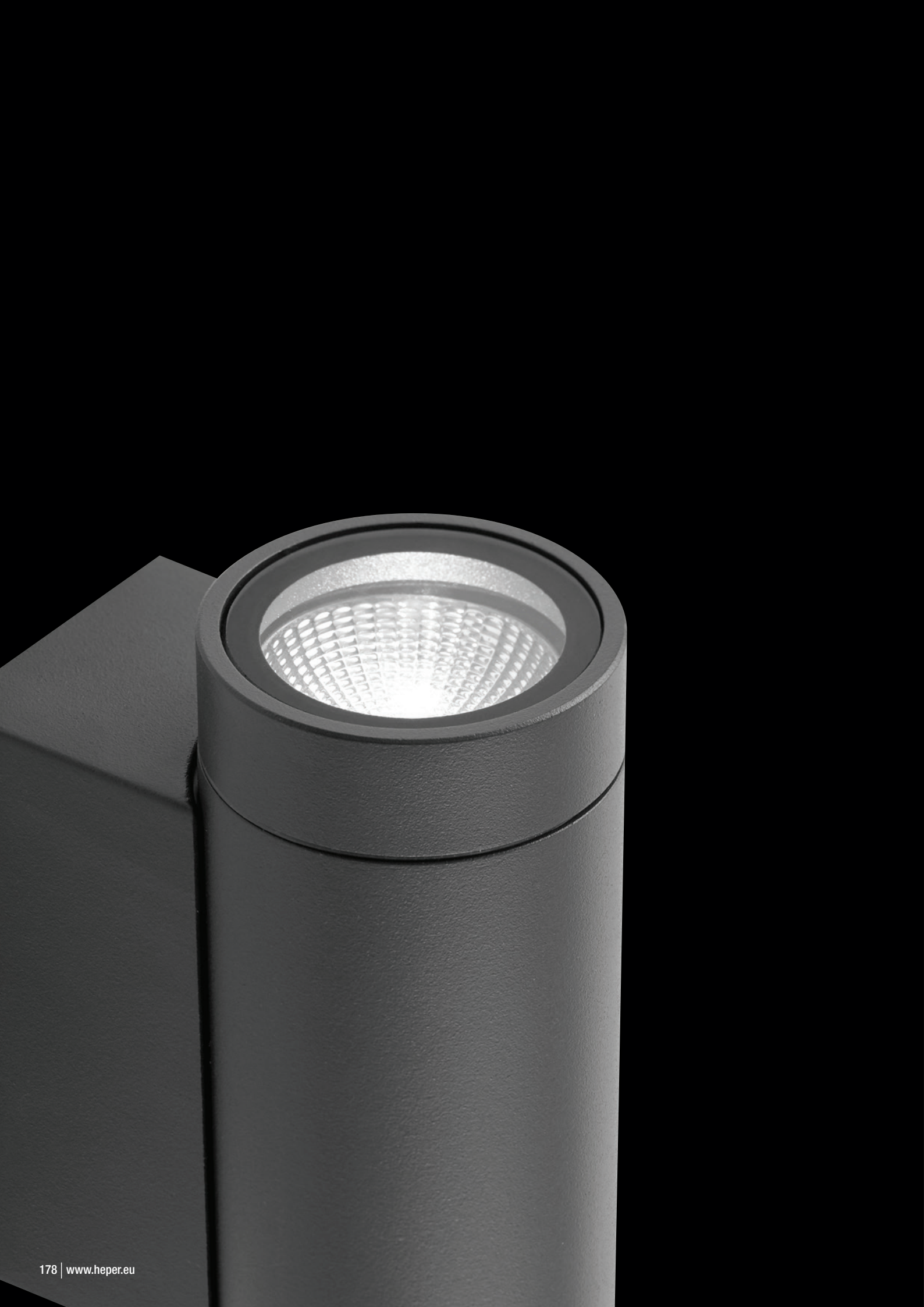
Safety class: CLASS I

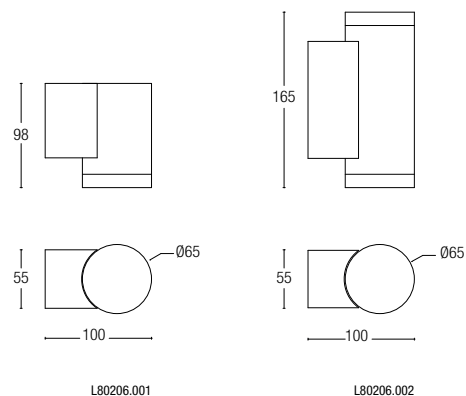
Control system (standard): On/Off

Operating temperature: -30°C - +55°C

Complies with European Standards EN 60598 and CE certified







LUMINAIRE

CODE	DESCRIPTION	POWER	LUMEN	COLOR TEMPERATURE
LW80206.001	Pina Flexo 10°	7.5W	350lm - 400lm	3000K / 4000K
LW80206.002	Pina Duo Flexo 10°	2x7.5W	700lm - 800lm	3000K / 4000K





# Otto

Ideal solution for architectural facades

Structured with Flexo LED module

Luminous flux: from 930lm up to 1050lm

Color temperature: 3000K, 4000K

Flexo beam angle options: 9°, 25°, 36°, 60°

CRI > 95

Corrosion resistant aluminum housing

Electrostatic powder coating

Color: standard RAL 7022

IP54, IK05

Safety class: CLASS I

Control system (standard): On/Off

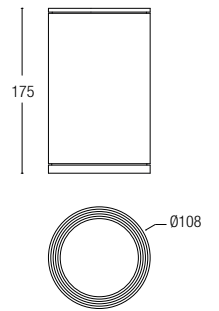
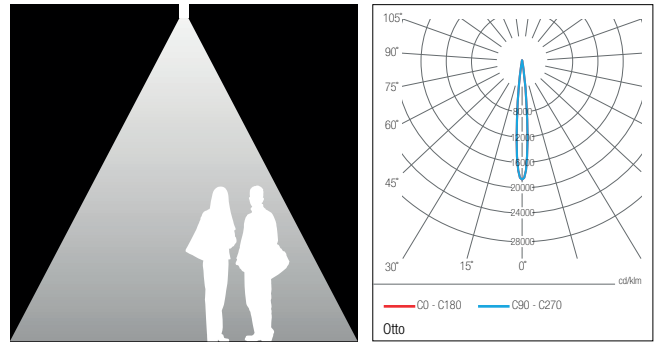
Operating temperature: -30°C - +55°C

Complies with European Standards EN 60598 and CE certified





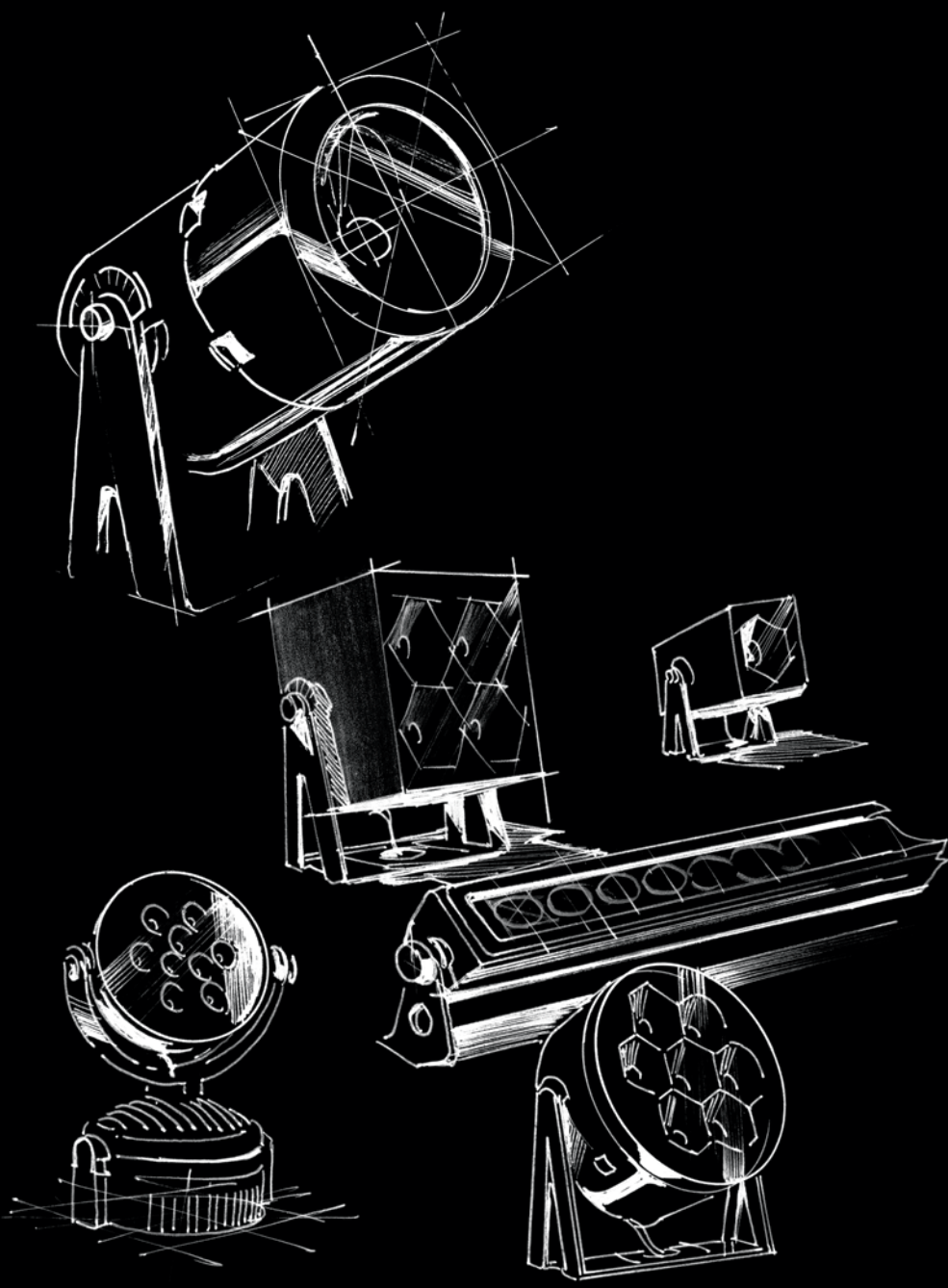




LUMINAIRE

CODE	DESCRIPTION	POWER	LUMEN	COLOR TEMPERATURE
LW80206.003	Otto Flexo 9°	18.5W	1000lm - 1040lm	3000K / 4000K

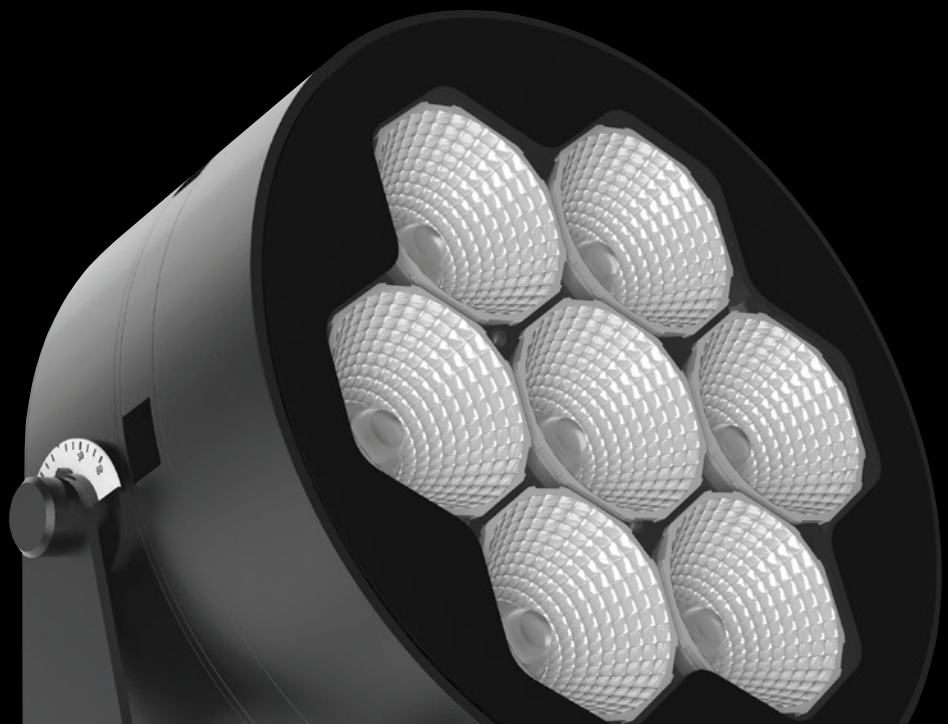
# FLOODLIGHT



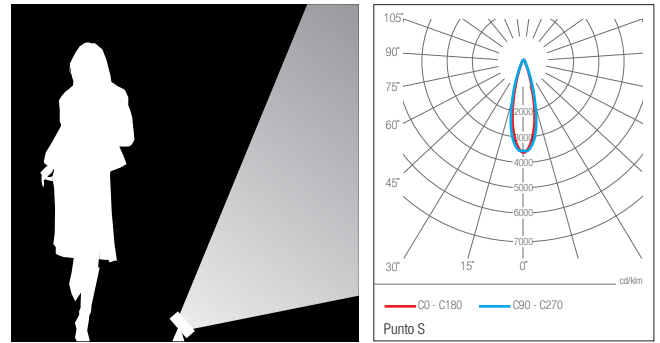
# Punto

Ideal solution for landscape areas and architectural facades  
Structured with Hybrid LED module or Flexo LED module  
Luminous flux: from 410lm up to 6200lm  
Color temperature: 3000K, 4000K  
Hybrid beam angle options: 7°, 26°  
Flexo beam angle options: 9°, 10°, 25°, 36°, 60°  
Multifaceted micro-reflection system  
Hybrid CRI 4000K > 70, 3000K > 80  
Flexo CRI > 95  
Corrosion resistant aluminum housing  
Electrostatic powder coating  
Color: standard HM1 to HM5, optional RAL codes  
IP65, IK07  
Safety class: CLASS I  
Control system (optional): 1-10V, DALI  
Operating temperature: -30°C - +55°C  
Complies with European Standards EN 60598 and CE certified

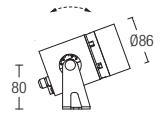




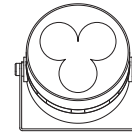




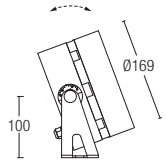
107



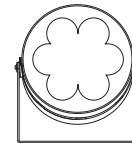
LF8017.693-7  
LF8017.693-26



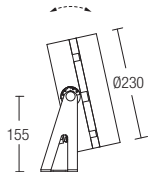
190



LF8018.694-7  
LF8018.694-26



248



LF8019.698-7  
LF8019.698-26

LUMINAIRE

CODE	DESCRIPTION	POWER	LUMEN	COLOR TEMPERATURE
LF8017.003	Punto Flexo S 10°	7.5W	410 - 460lm	3000K / 4000K
LF8017.693-26	Punto Hybrid S 26°	9W	750lm - 900lm	3000K / 4000K
LF8017.693-7	Punto Hybrid S 7°	9W	750lm - 900lm	3000K / 4000K
LF8018.694-26	Punto Hybrid 26°	26W	2300lm - 2700lm	3000K / 4000K
LF8018.694-7	Punto Hybrid 7°	26W	2300lm - 2700lm	3000K / 4000K
LF8018.853	Punto Flexo 9°	22W	1000 - 1050lm	3000K / 4000K
LF8019.698-26	Punto Hybrid L 26°	58W	5400lm - 6200lm	3000K / 4000K
LF8019.698-7	Punto Hybrid L 7°	58W	5400lm - 6200lm	3000K / 4000K

# Vega

Ideal solution for landscape areas and architectural facades

Structured with Hybrid LED module

Luminous flux: from 750lm up to 3400lm

Color temperature: 3000K, 4000K

CRI 4000K > 70, 3000K > 80

Hybrid beam angle options: 7°, 26°

Multifaceted micro-reflection system

Corrosion resistant aluminum housing

Electrostatic powder coating

Color: standard HM1 to HM5, optional RAL codes

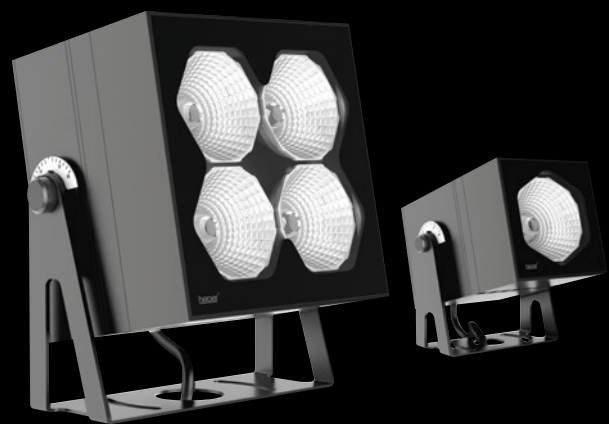
IP65, IK07

Safety class: CLASS I

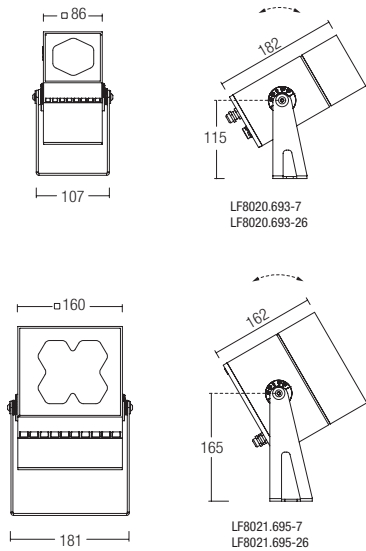
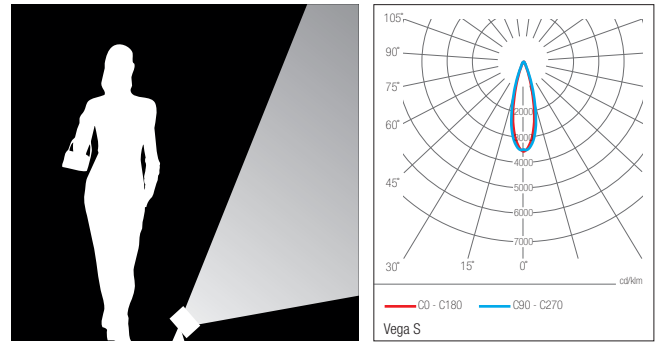
Control system (optional): 1-10V, DALI

Operating temperature: -30°C - +55°C

Complies with European Standards EN 60598 and CE certified







LUMINAIRE

CODE	DESCRIPTION	POWER	LUMEN	COLOR TEMPERATURE
LF8020.693-26	Vega Hybrid S 26°	9W	750lm - 900lm	3000K / 4000K
LF8020.693-7	Vega Hybrid S 7°	9W	750lm - 900lm	3000K / 4000K
LF8021.695-26	Vega Hybrid 26°	35W	3000lm - 3400lm	3000K / 4000K
LF8021.695-7	Vega Hybrid 7°	35W	3000lm - 3400lm	3000K / 4000K

# Elipso

Ideal solution for landscape areas and architectural facades

Structured with LED light source

Luminous flux: from 500lm up to 600lm

Color temperature: 3000K, 4000K

Beam angle options: 10°, 25°, 40°, 60°

CRI 4000K > 70, 3000K > 80

Corrosion resistant aluminum housing

Electrostatic powder coating

Color: standard HM1 to HM5, optional RAL codes

IP65, IK07

Safety class: CLASS I

Control system (standard): On/Off

Operating temperature: -30°C - +55°C

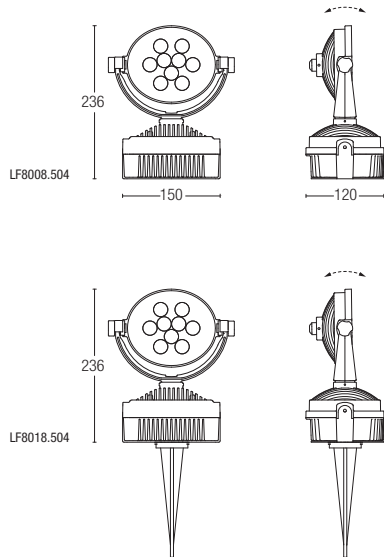
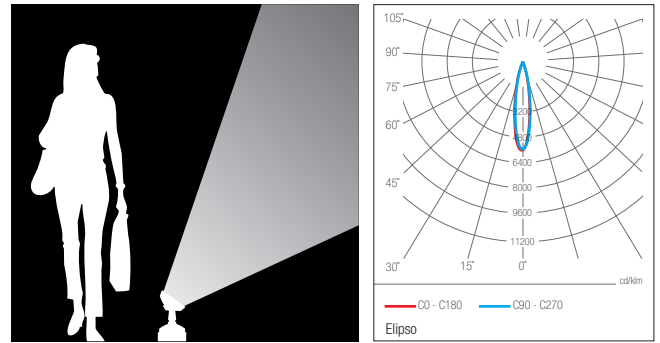
Complies with European Standards EN 60598 and CE certified





heper+

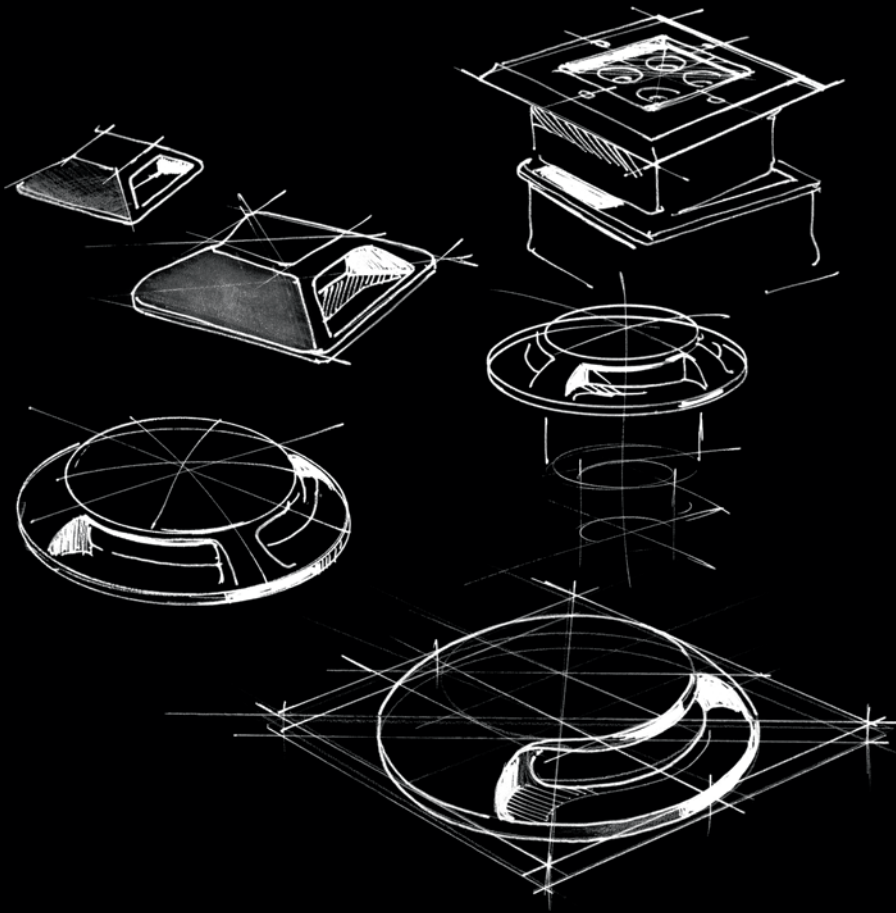




LUMINAIRE

CODE	DESCRIPTION	POWER	LUMEN	COLOR TEMPERATURE
LF8008.504	Elipso 10°	11W	500lm - 600lm	3000K / 4000K
LF8018.504	Elipso Spike 10°	11W	500lm - 600lm	3000K / 4000K

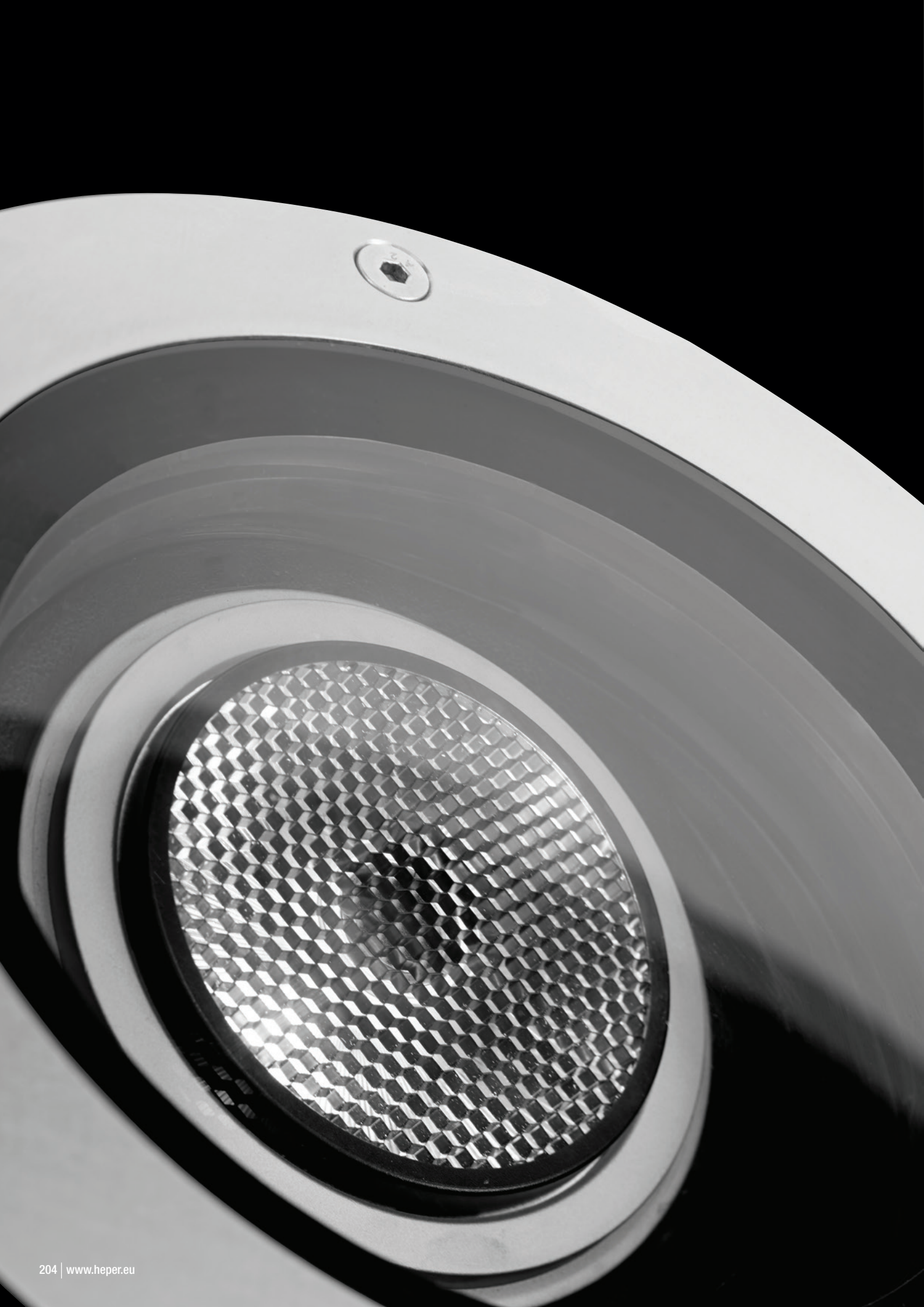
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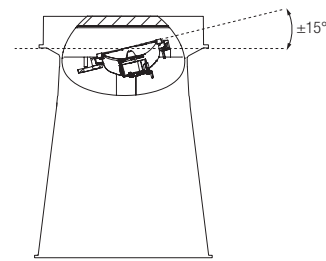
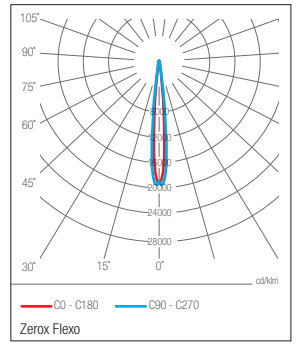
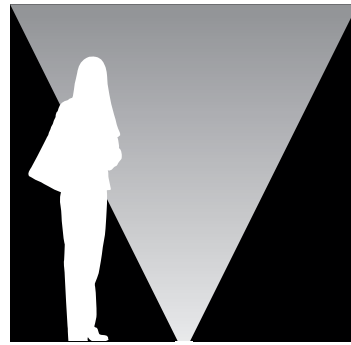


# Zerox

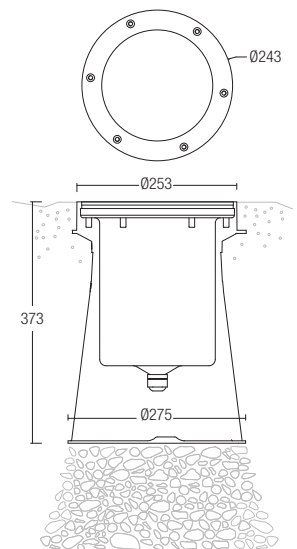
Ideal solution for landscape areas and architectural facades  
Structured with Hybrid, Flexo and COB LED module  
Luminous flux: from 900lm up to 3000lm  
Color temperature: 3000K, 4000K  
COB beam angle option: 30°  
Hybrid beam angle options: 7°, 26°  
Flexo beam angle options: 9°, 25°, 36°, 60°  
COB, Hybrid CRI 4000K > 70, 3000K > 80  
Flexo CRI > 95  
Corrosion resistant stainless steel housing  
IP67, IK09  
Safety class: CLASS I  
Control system (optional): DALI, 1-10V  
Flexo adjustable tilt angle between  $\pm 15^\circ$   
Operating temperature: -30°C - +55°C  
Complies with European Standards EN 60598 and CE certified







LR9005.853



LUMINAIRE

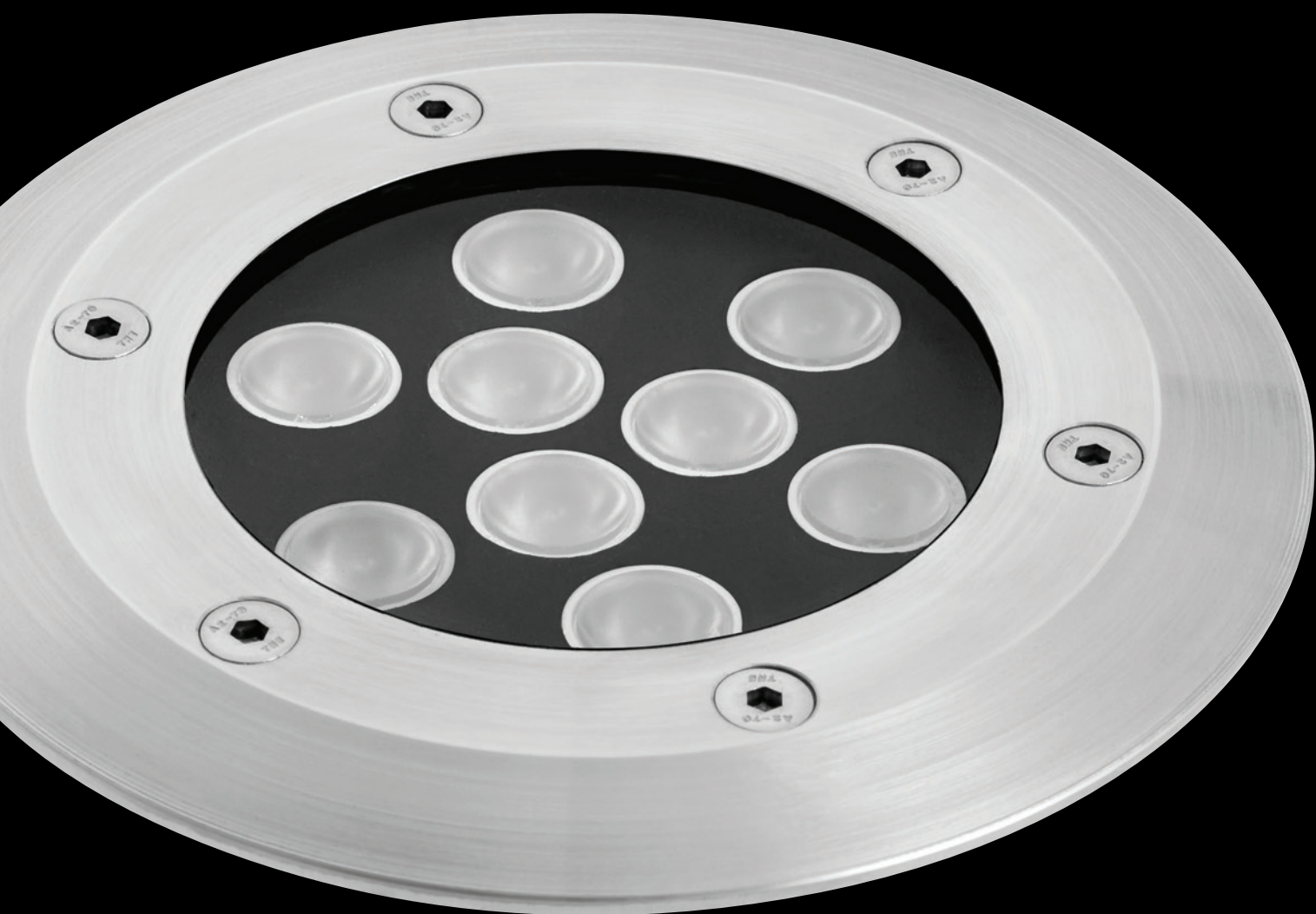
CODE	DESCRIPTION	POWER	LUMEN	COLOR TEMPERATURE
LR9005.504	Zerox COB 30°	14W	900lm - 1200lm	3000K / 4000K
LR9005.695-7	Zerox Hybrid 7°	35W	2500lm - 3000lm	3000K / 4000K
LR9005.695-26	Zerox Hybrid 26°	35W	2500lm - 3000lm	3000K / 4000K
LR9005.853	Zerox Flexo 9°	22W	930lm - 1050lm	3000K / 4000K

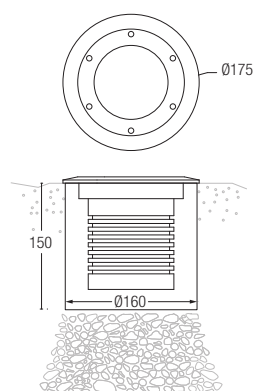
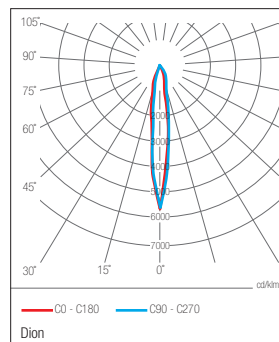
# Dion

Ideal solution for landscape areas and architectural facades  
Structured with standard LED module or Flexo LED module  
Luminous flux: 150lm up to 600lm  
Color temperature: 3000K, 4000K  
Beam angle options: 10°, 25°, 36°, 40°, 60°  
CRI 4000K > 70, 3000K > 80  
Corrosion resistant aluminum housing with stainless steel frame  
IP67, IK07  
Safety class: CLASS I  
Control system (standard): On/Off  
Operating temperature: -30°C - +55°C  
Complies with European Standards EN 60598 and CE certified

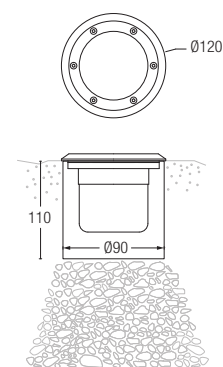








LR9001.504



LR9002.501  
LR9002.003

LUMINAIRE

CODE	DESCRIPTION	POWER	LUMEN	COLOR TEMPERATURE
LR9001.504	Dion 10°	11W	500lm - 600lm	3000K / 4000K
LR9002.501	Dion S 10°	4W	150lm - 250lm	3000K / 4000K
LR9002.003	Dion Flexo S 10°	7.5W	390lm - 455lm	3000K / 4000K

# Wedge

Ideal solution for landscape areas and architectural facades

Structured with LED light source

Luminous flux: from 120lm up to 200lm

Color temperature: 3000K, 4000K

CRI 4000K > 70, 3000K > 80

Beam angle options: 10°, 25°, 40°, 60° and asymmetrical optimized light distribution

Corrosion resistant aluminum housing with stainless steel frame

IP67, IK08

Safety class: CLASS I

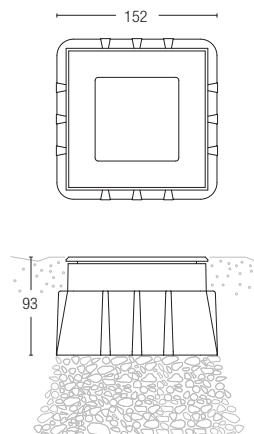
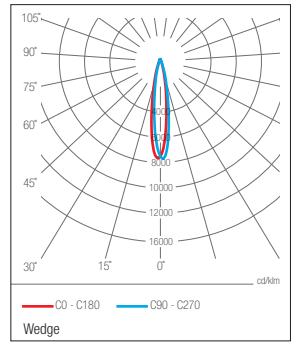
Control system (standard): On/Off

Operating temperature: -30°C - +55°C

Complies with European Standards EN 60598 and CE certified







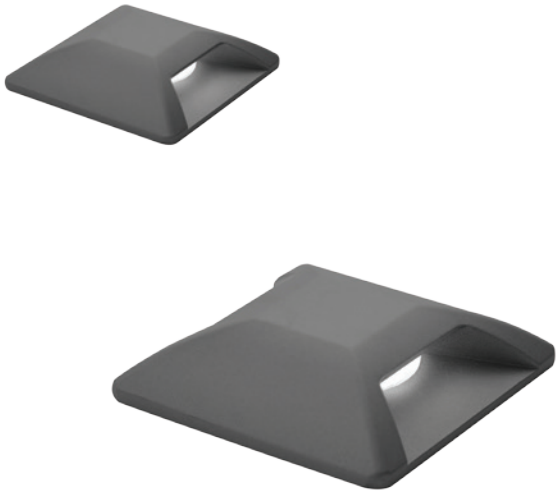
LUMINAIRE

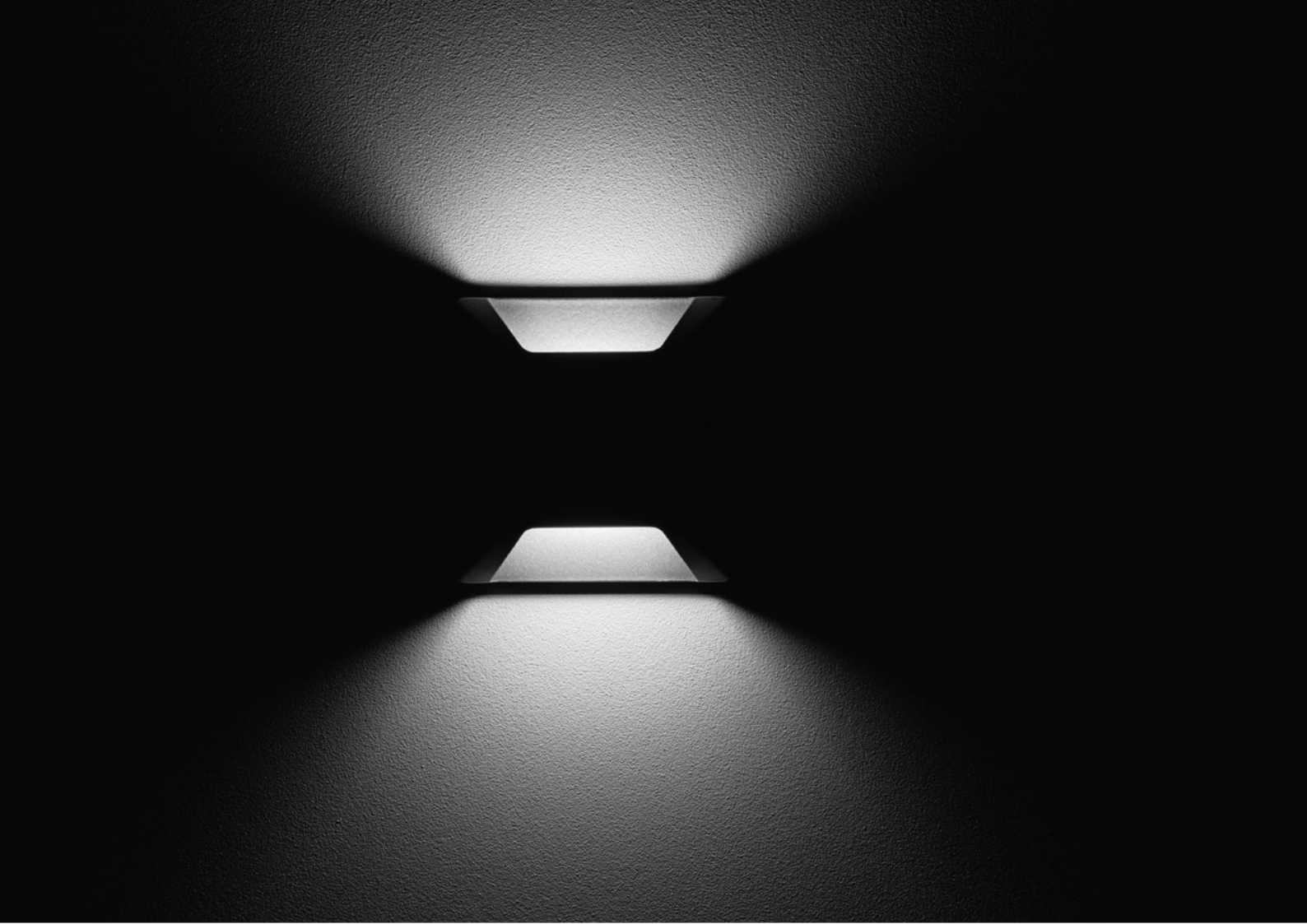
CODE	DESCRIPTION	POWER	LUMEN	COLOR TEMPERATURE
LR9003.530	Wedge Asym	6W	120lm - 160lm	3000K / 4000K
LR9003.531	Wedge 10°	6W	150lm - 200lm	3000K / 4000K

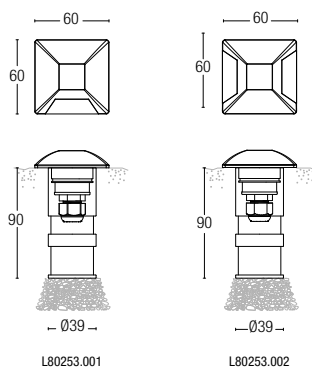
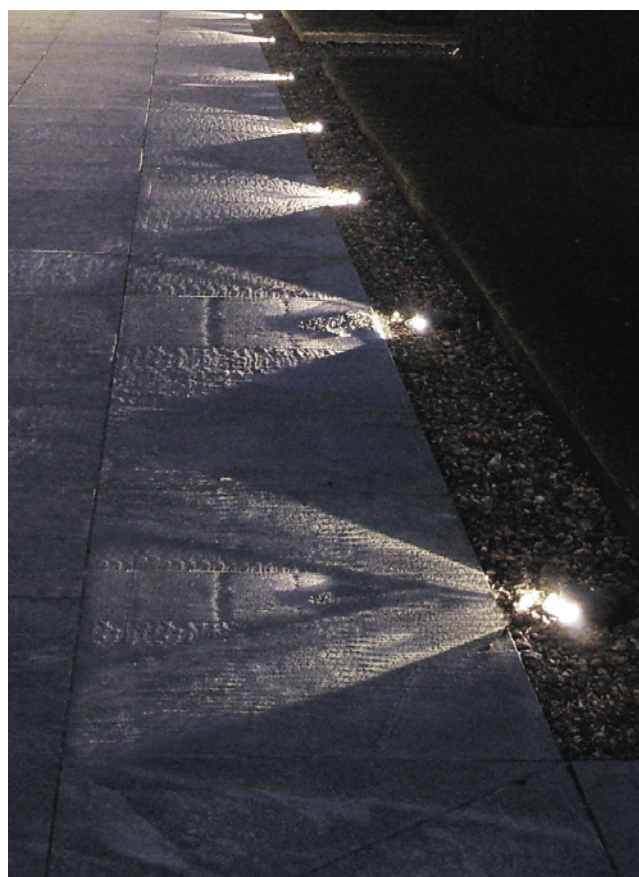
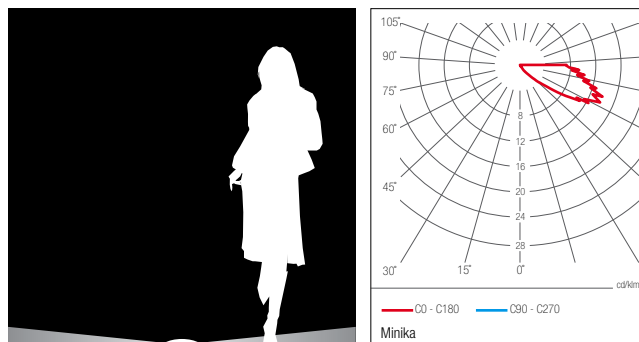
# Minika

Ideal solution for landscape areas and architectural facades  
Structured with LED light source  
Luminous flux: from 5lm up to 11lm  
Color temperature: 3000K  
Beam angle options: 120°, 2x120°  
CRI > 70  
Corrosion resistant aluminum housing  
Color: standard RAL 7022  
IP67, IK08  
Safety class: CLASS II  
Control system (standard): On/Off  
Operating temperature: -30°C - +55°C  
Complies with European Standards EN 60598 and CE certified









LUMINAIRE

CODE	DESCRIPTION	POWER	LUMEN	COLOR TEMPERATURE
L80253.001	Minika 120°	2.5W	5lm - 6lm	3000K
L80253.002	Minika 2x120°	2.5W	10lm - 11lm	3000K

# Minimo

Ideal solution for landscape areas and architectural facades

Structured with LED light source

Luminous flux: from 5lm up to 22lm

Color temperature: 3000K

Beam angle options: 120°, 2x120°, 3x90°, 4x60°

CRI > 70

Corrosion resistant aluminum housing

Color: standard RAL 7022

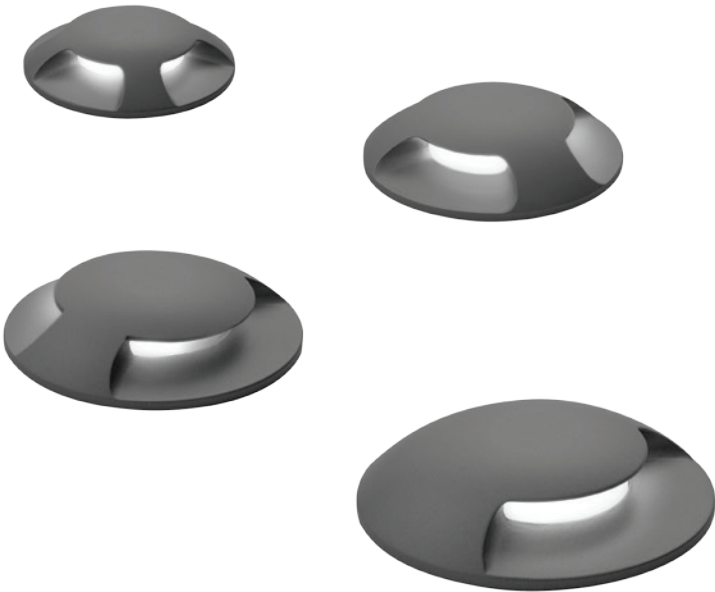
IP67, IK08

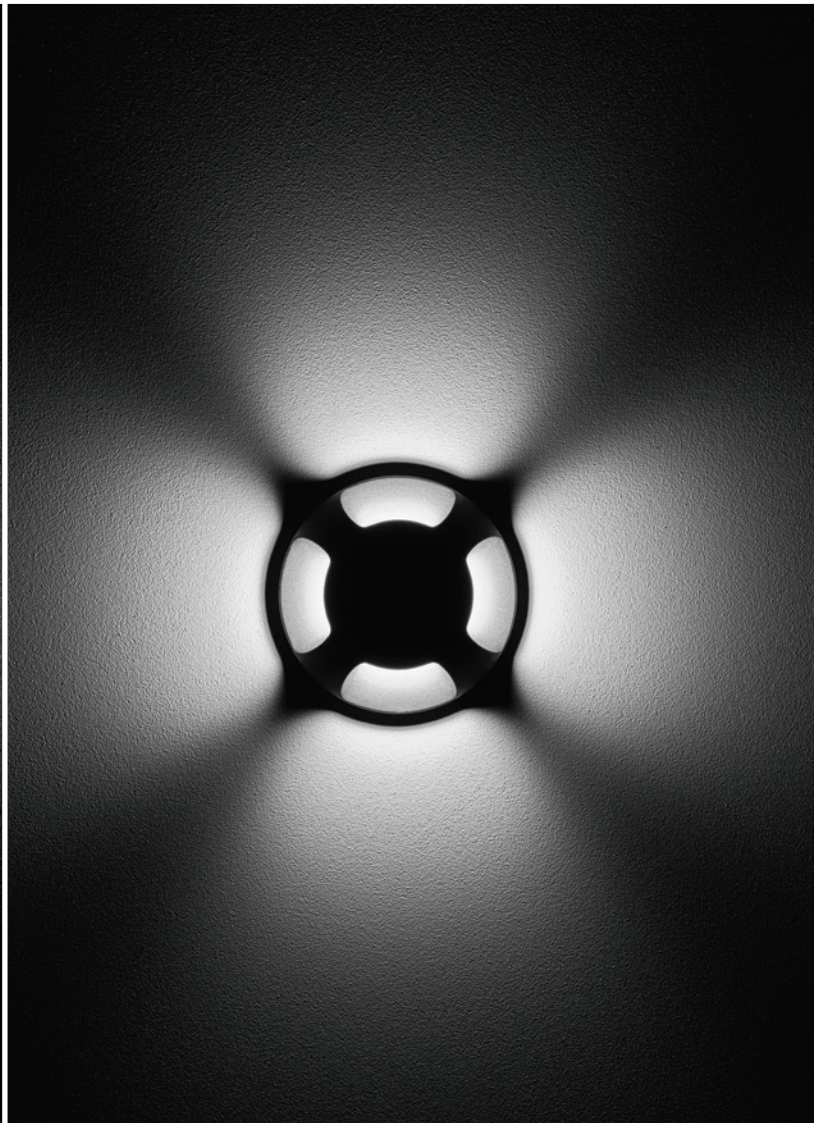
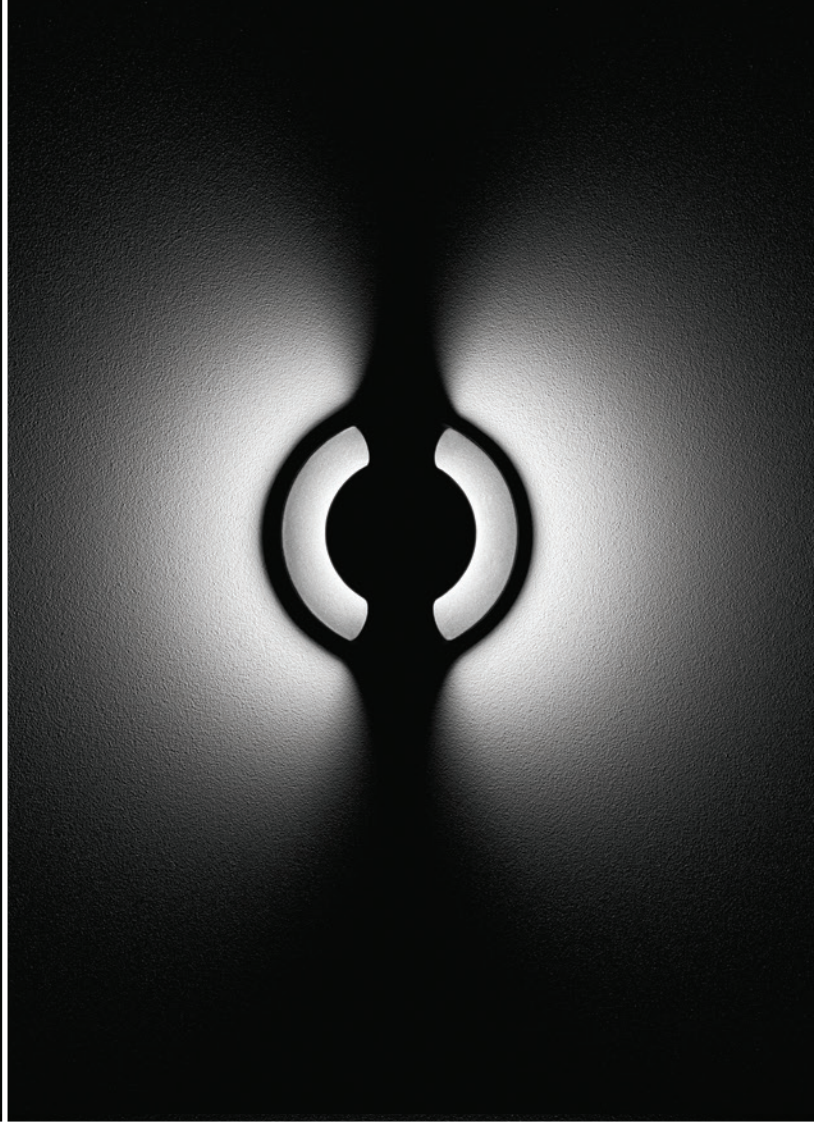
Safety class: CLASS II

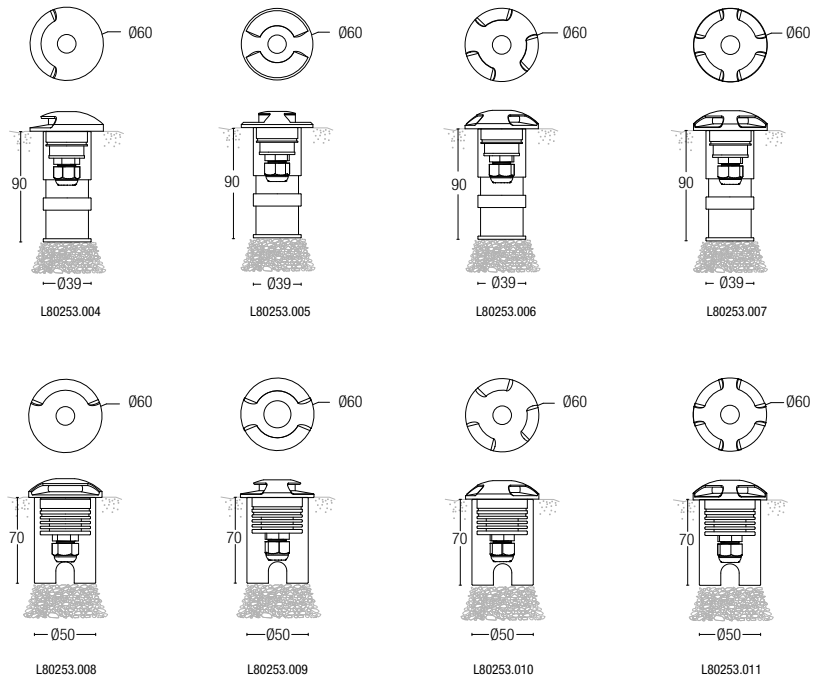
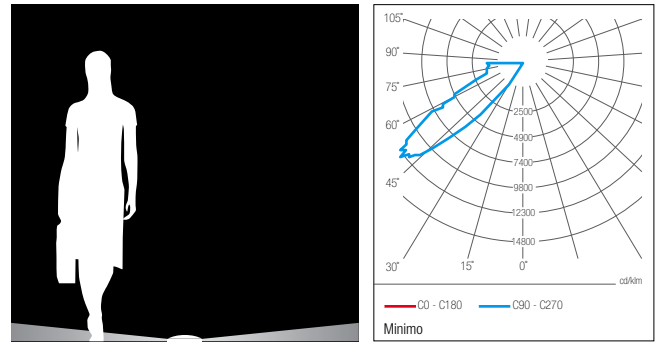
Control system (standard): On/Off

Operating temperature: -30°C - +55°C

Complies with European Standards EN 60598 and CE certified







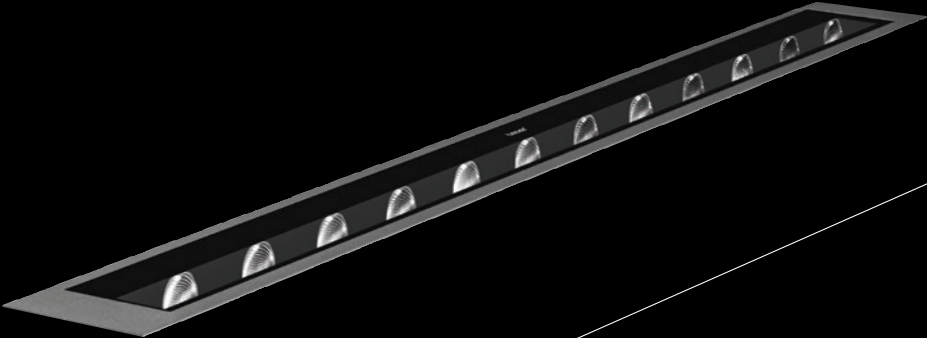
LUMINAIRE

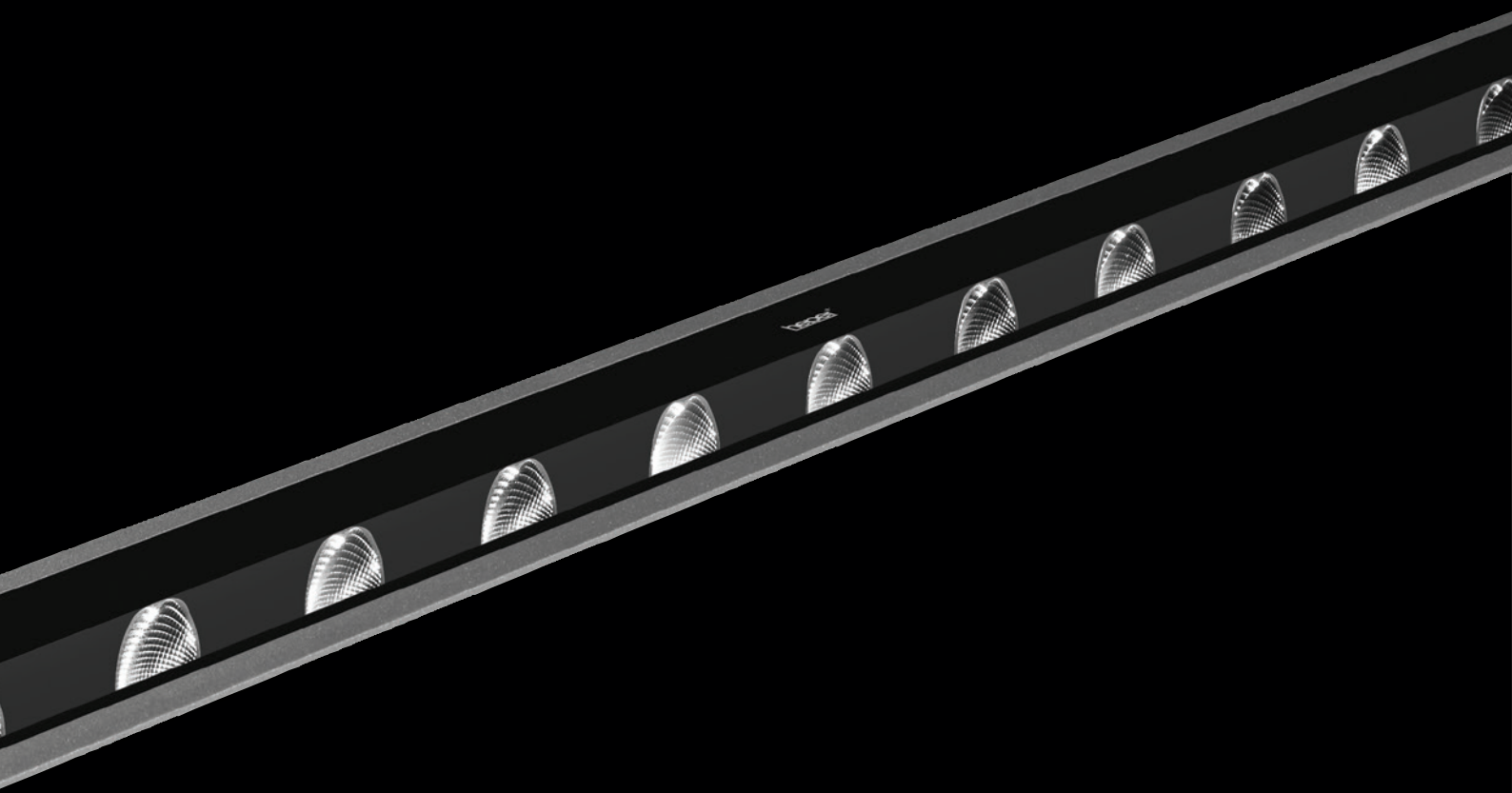
CODE	DESCRIPTION	POWER	LUMEN	COLOR TEMPERATURE
L80253.004	Minimo 120°	2.5W	5lm - 6lm	3000K
L80253.005	Minimo 2x120°	2.5W	10lm - 11lm	3000K
L80253.006	Minimo 3x90°	2.5W	12lm - 13lm	3000K
L80253.007	Minimo 4x60°	2.5W	10lm - 11lm	3000K

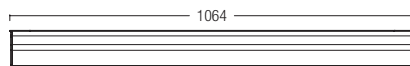
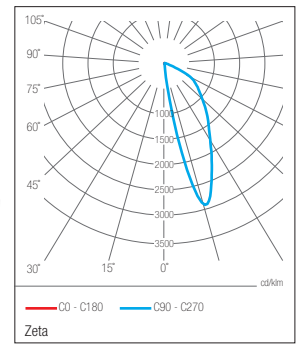
# Zeta

Ideal solution for landscape areas and architectural facades  
Structured with Dyno LED module  
Luminous flux: from 550lm up to 2400lm  
Color temperature: 3000K, 4000K  
Wall washing optimized light distribution  
CRI 4000K > 70, 3000K > 80  
Corrosion resistant aluminum housing  
Electrostatic powder coated  
Color: standard HM1 to HM5, optional RAL codes  
IP65, IK07  
Safety class: CLASS I  
Control system (optional): 1-10V, DALI  
Operating temperature: -30°C - +55°C  
Complies with European Standards EN 60598 and CE certified

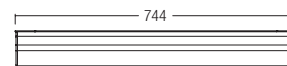




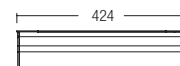




LR9011.584



LR9011.583



LR9011.582

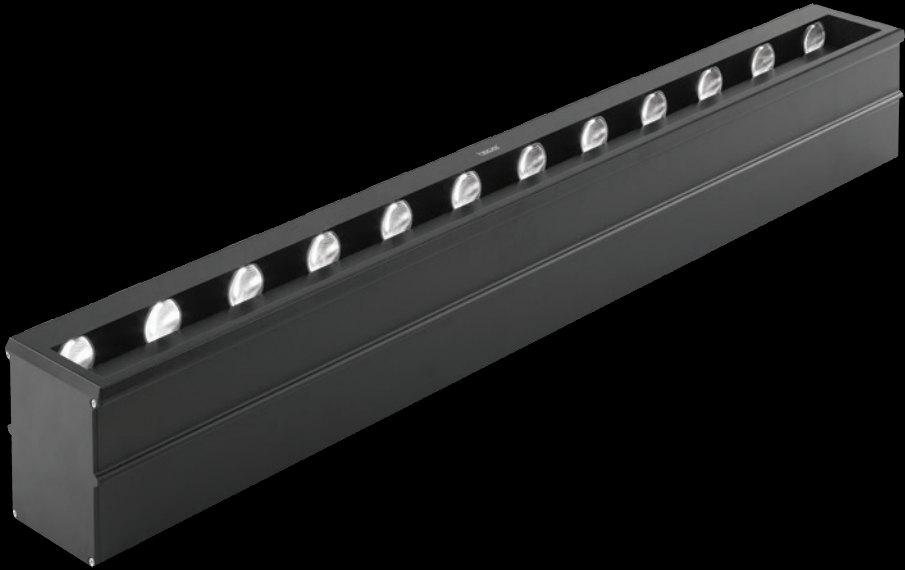


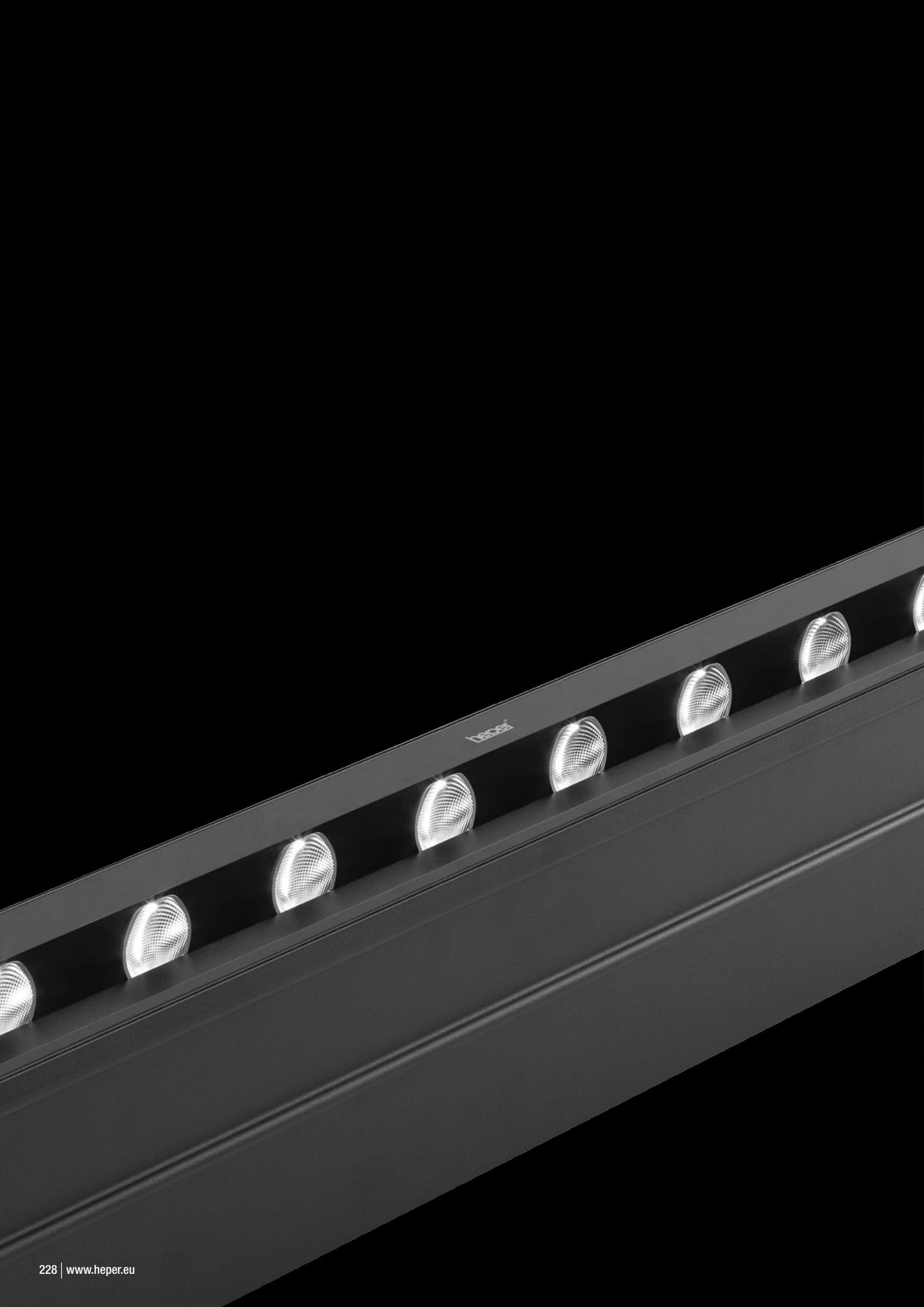
LUMINAIRE

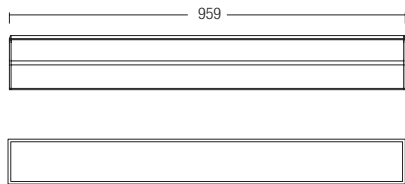
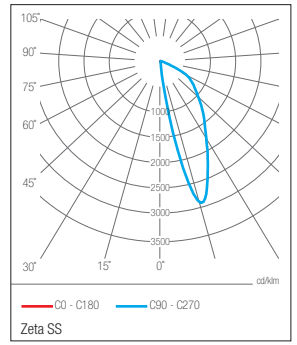
CODE	DESCRIPTION	POWER	LUMEN	COLOR TEMPERATURE
LR9011.582	Zeta 4 Dyno	10W	550lm - 800lm	3000K / 4000K
LR9011.583	Zeta 8 Dyno	20W	1100lm - 1600lm	3000K / 4000K
LR9011.584	Zeta 12 Dyno	30W	1650lm - 2400lm	3000K / 4000K

# Zeta SS

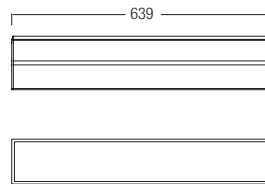
Ideal solution for landscape areas and architectural facades  
Structured with Dyno LED module  
Luminous flux: from 550lm up to 2400lm  
Color temperature: 3000K, 4000K  
Wall washing optimized light distribution  
CRI 4000K > 70, 3000K > 80  
Corrosion resistant stainless steel housing  
IP67, IK08  
Safety class: CLASS I  
Control system (optional): 1-10V, DALI  
Operating temperature: -30°C - +55°C  
Complies with European Standards EN 60598 and CE certified



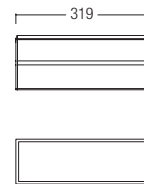




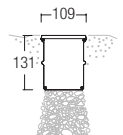
LR9012.584



LR9012.583



LR9012.582



LUMINAIRE

CODE	DESCRIPTION	POWER	LUMEN	COLOR TEMPERATURE
LR9012.582	Zeta SS 4 Dyno	10W	550lm - 800lm	3000K / 4000K
LR9012.583	Zeta SS 8 Dyno	20W	1100lm - 1600lm	3000K / 4000K
LR9012.584	Zeta SS 12 Dyno	30W	1650lm - 2400lm	3000K / 4000K

# Molto

Ideal solution for landscape areas and architectural facades

Structured with Hybrid LED module

Luminous flux: from 1150lm up to 4900lm

Color temperature: 3000K, 4000K

Symmetrical optimized light distribution

Multifaceted micro-reflection system

CRI 4000K > 70, 3000K > 80

Corrosion resistant stainless steel housing

IP67, IK08

Safety class: CLASS I

Control system (optional): 1-10V, DALI

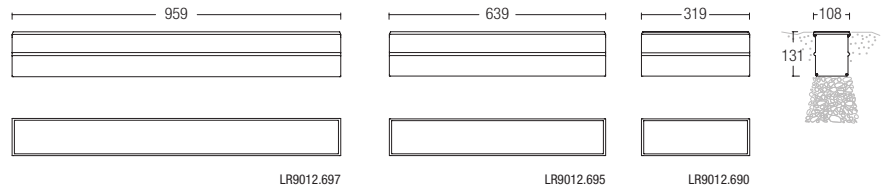
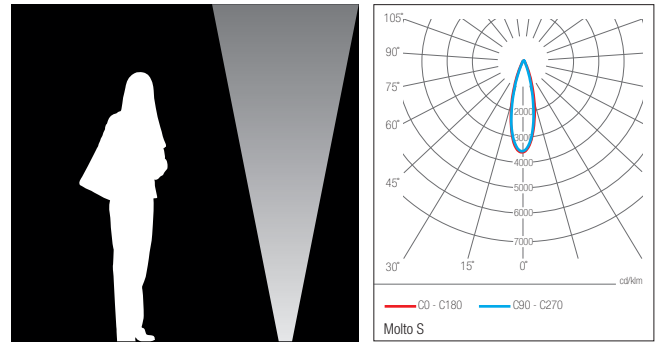
Operating temperature: -30°C - +55°C

Complies with European Standards EN 60598 and CE certified



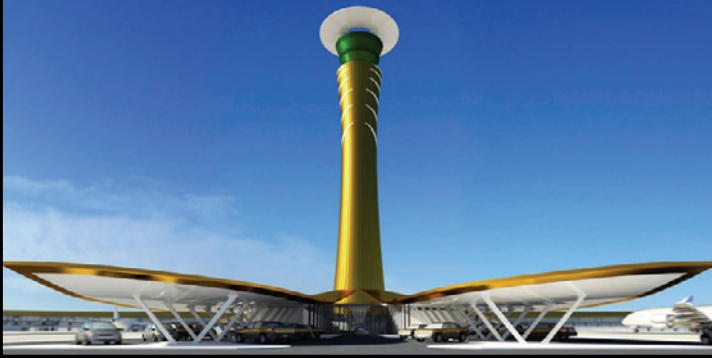






LUMINAIRE

CODE	DESCRIPTION	POWER	LUMEN	COLOR TEMPERATURE
LR9012.690	Molto S	17W	1150lm - 1250lm	3000K / 4000K
LR9012.695	Molto	35W	2350lm - 2450lm	3000K / 4000K
LR9012.697	Molto L	70W	4700lm - 4900lm	3000K / 4000K



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# MORE EXPERIENCE

Providing lighting for the most prestigious buildings of the world was an ambitious objective for us. We haven't just succeeded in meeting these objectives; we've also created lighting systems that add value to unique buildings. We've succeeded to keep the high-quality standards of Heper throughout changing countries, climates and architectures.



QATAR • LUSAIL CITY



NIGERIA • EKO ATLANTIC CITY



POLAND • BALTIC ARENA STADIUM



SULTANATE OF OMAN • MUSCAT INTERNATIONAL AIRPORT



SAUDI ARABIA • PRINCESS NOURAH BINT ABDULRAHMAN UNIVERSITY



# MORE NETWORK

Heper is in every corner of the world with its everlasting quality, unique designs and innovative solutions. Exporting to 80+ countries in; Europe, Balkans, North Africa, America, Middle East, Russia, Australia, New Zeland.



**HEADQUARTERS**  
Ankara / TURKEY

Moonlight Lighting Inc.

HPR Industry Inc.

HPR Marketing Inc.

# CATALOGUE GUIDE

## DESCRIPTION

These are product descriptions and versions.

## LUMEN

Given lumen values in the catalogue are standard lumen values.

## LUMINAIRE

CODE	DESCRIPTION	POWER	LUMEN	COLOR TEMPERATURE
LR9005.504	Zerox COB 30°	14W	900lm - 1200lm	3000K / 4000K
LR9005.695-7	Zerox Hybrid 7°	35W	2500lm - 3000lm	3000K / 4000K
LR9005.695-26	Zerox Hybrid 26°	35W	2500lm - 3000lm	3000K / 4000K
LR9005.853	Zerox Flexo 9°	22W	930lm - 1050lm	3000K / 4000K

## CODE

These are product codes.

## POWER

Given watt values in the catalogue are standard power values.

## COLOR TEMPERATURE

Given color temperature values in the catalogue are standard color temperature values.



Luminaire in compliance with governing European directives.



Certification indicates conformity with the relevant European standards on safety and functionality.



Certification indicates conformity with the relevant Russian federation standards on safety and functionality.



Certification indicates conformity with the relevant North America standards on safety and functionality.

**IKxx**

Mechanical impact strength classification.

**IPxx**

Ingress protection classification.

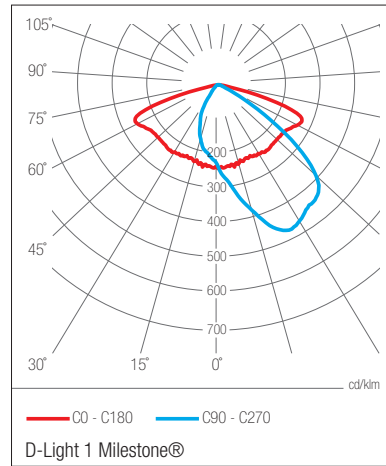
**L**

L refers to the large version of the product.

**S**

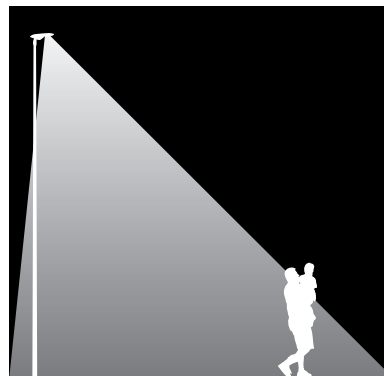
S refers to the small version of the product.





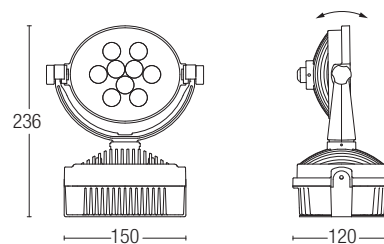
### Photometric Diagram

The photometric polar diagram is to provide a general idea about the light distribution of dedicated particular Luminaire. The diagram is shown in C plane quadrants.



### Reflection & Proportion

The figure to indicate a basic light forwarding direction to help designers to select suitable luminaire for specific application.



### Technical Drawing

Technical drawings inclusive of basic dimensioning are given to assist designer checking dimensional suitability.

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D-LIGHT L	LL2024.674	034
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C-LIGHT	LC2029.672	040
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