

*"The first one. The legendary one."*

# AEROLITE LSL



**GRAH**<sup>®</sup>  
LED LIGHTING

STREET

## AEROLITE LSL S



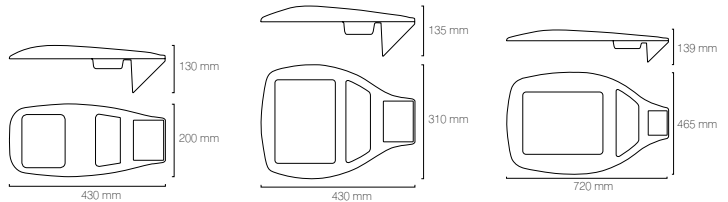
## AEROLITE LSL M



## AEROLITE LSL L



### TECHNICAL SPECIFICATIONS



AEROLITE LSL S

AEROLITE LSL M

AEROLITE LSL L

Supply voltage range:	190-264 V, 50 / 60 Hz		
Surge protection:	4 kV		
Consumption:	15W / 27 W	27 W / 61 W	73 W / 175 W
Power Factor:	> 0,9		
Temperature range:	-30 °C / +60 °C		
Working temperature at Ta25:	+55 °C		
LEDs overheating protection:	NTC thermistor		
Light guiding system:	PMMA lenses and Alu-mirror reflector		
Optics:	Asymmetric		
Power reduction:	50% step DIM and 1-10 V		
Light source:	High power LED		
Colour temperature:	4000 K (3000 K, 5000 K on request)		
Colour Rendering Index:	CRI > 70		
LED Lifetime:	Up to 100.000 hours, L90 @ Ta = 25 °C		
System efficacy:	up to 133 lm/W	up to 144 lm/W	up to 130 lm/W
Luminous flux:	2.000 lm / 3.300 lm	3.900 lm / 7.400 lm	9.500 lm / 21.600 lm
Appliance class:	I or II		
Housing material:	Aluminium alloy		
Sealing material:	Silicone, heat resistant		
Cover material:	PMMA		
Housing colour:	Grey (other colours on request)		
Wind resistance:	0,023 m <sup>2</sup>	0,024 m <sup>2</sup>	0,043 m <sup>2</sup>
Ingress protection class:	IP66		
Impact resistance:	IK09 / IK10		
Design:	Shape for best heat conductivity and water flow		
Mounting angle adjustment:	+/- 15°		
Mounting diameter option:	Ø60 and Ø76		
Suggested mounting height:	3-5 m	5-8 m	8-15 m
Dimension (L x W x H):	430 x 200 x 130 mm	430 x 310 x 135 mm	720 x 465 x 139 mm
Net weight:	2,5 kg	3,5 kg	6,8 kg



# COMMERCIAL SPECIFICATIONS

ID: 1 0 0 1 - 0 0 2 0 - 1 0 6 3 - 6 4 1 1 - 0 0 0 0

Code	Name	Code	Regulat.	Code	Lum. flux [lm]	Power [W]	Code	App. class	Code	Optics	Code	Colour Temp.[K]	Code	Housing Colour	Code	Size															
1001	AEROLITE LSL	0	ON/OFF	020	2000	15	1	SCI	06	ME comfort	3	3000*	1	Grey	024	2400	19	1	S												
				033	3300	27									06	ME comfort	4	4000	6	Special	039	3900	27	06	ME comfort	5	5000*	3	L		
				048	4800	35															064	6400	50							07	FN comfort
				064	6400	50									06	ME comfort	07	FN comfort	08	PX-L	09	PX-R	157	15700	121	183	18300	148	216	21600	175
				074	7400	61																									
				095	9500	73									06	ME comfort	07	FN comfort	08	PX-L	09	PX-R	157	15700	121	183	18300	148	216	21600	175
				109	10900	88																									
				129	12900	100									06	ME comfort	07	FN comfort	08	PX-L	09	PX-R	157	15700	121	183	18300	148	216	21600	175
				147	14700	121																									
				157	15700	121									06	ME comfort	07	FN comfort	08	PX-L	09	PX-R	157	15700	121	183	18300	148	216	21600	175
				183	18300	148																									
				216	21600	175									06	ME comfort	07	FN comfort	08	PX-L	09	PX-R	157	15700	121	183	18300	148	216	21600	175
				095	9500	73																									

\*Luminous flux for 3000 K and 5000 K may vary, please contact our Sales department for detailed information.  
Choose your bracket from the accessories.

Code	Options
0001	Nema Socket 5
0002	iMCU*
0030	Astro DIM*

\*For luminaires with iMCU and Astro DIM 1-10V regulation is required

# FEATURES

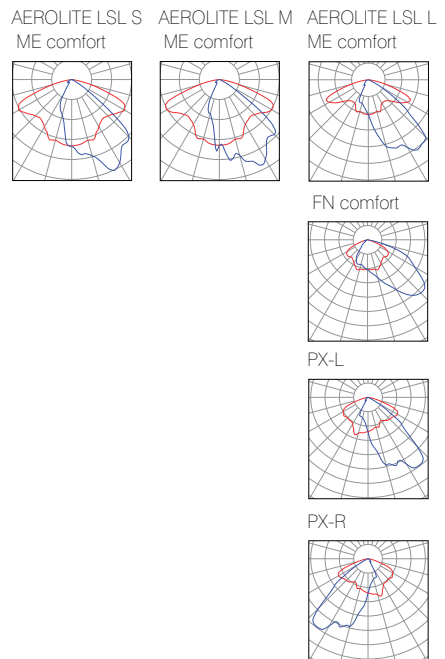


## Aerodynamic housing and comfort optics design

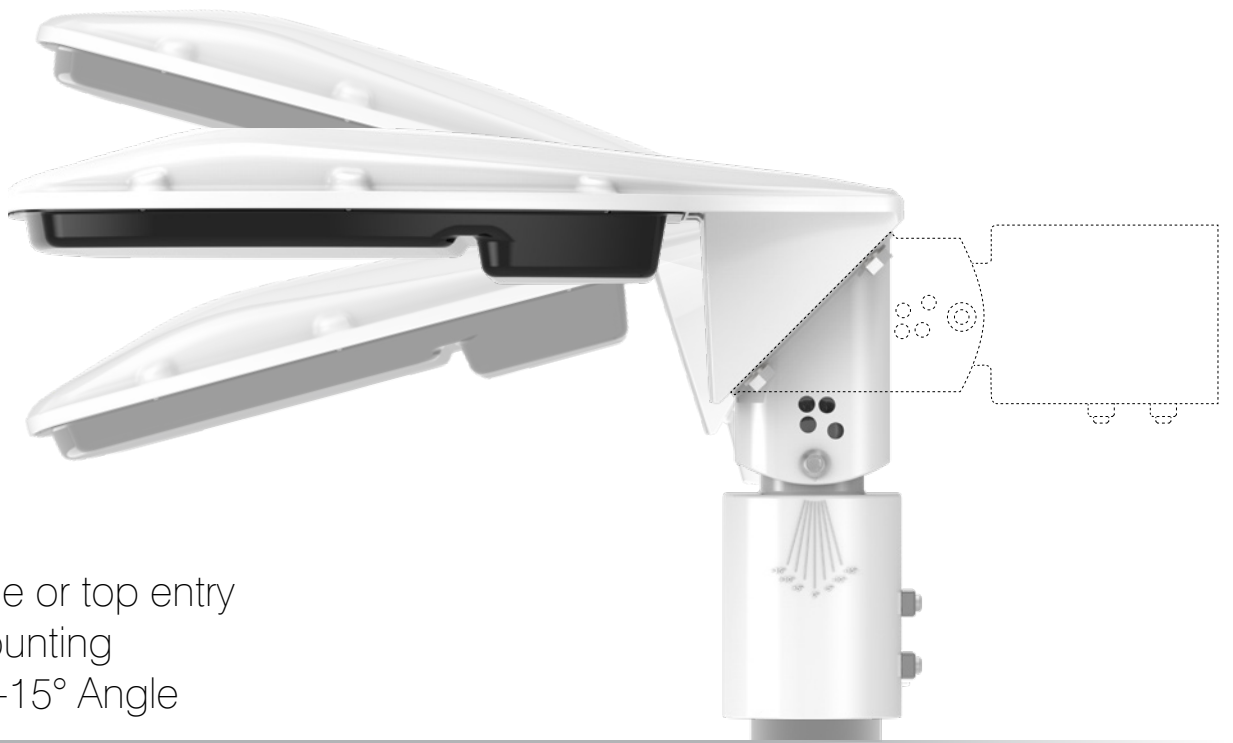
With cutting edge light technology and very low energy consumption, Aerolite LSL is a popular street lamp. With different lumen packages and sizes, LSL remains the best choice for lighting up smaller roads as well as for more demanding street projects.

## 3 sizes with, 6 light distributions and efficacy up to 144 lm/W

Comfort optics systems for 6 different applications. Aerolite LSL comes with 4 kV surge protection against internal components damage. With the latest LED chip, efficiency is increased up to 144 lm/W. NTC thermistor is used to protect the LEDs from overheating.



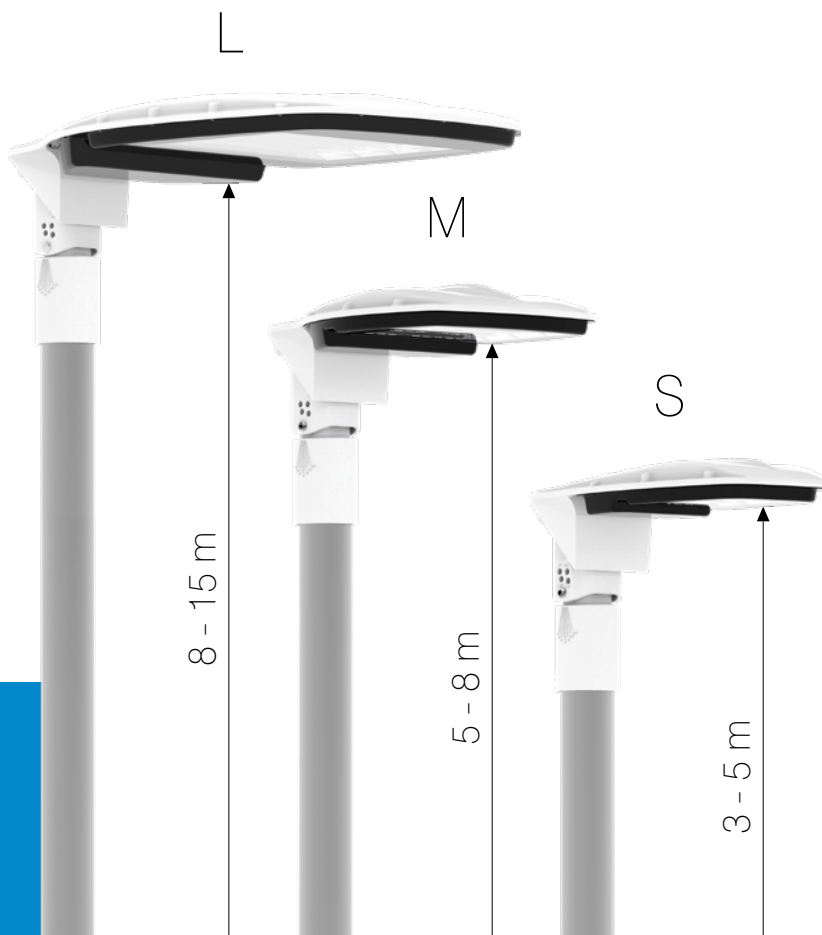
**TIP:** for detailed information on light distributions and the connection with pole height, distance between poles and road width see brochure: **Street LED Lighting Guidelines**



Side or top entry  
mounting  
+/-15° Angle

Three different bracket types with different angle settings.  
Fix bracket up to Ø60 mm pole and up to Ø76 mm when adjustable.  
Adapter for Ø60 mm to Ø40 mm available.

TIP: for other mountings options and extensions see next page



With luminous flux from 2.000 lm to 21.600 lm and different optics systems, Aerolite LSL cover all your needs

- smaller roads
- residential streets
- private driveways
- walking paths
- bicycle lanes
- side ways
- pedestrian crossings
- parking lots
- industrial areas
- interurban roads
- urban roads
- high speed traffic roads
- junctions
- resting places
- collector roads

# ACCESSORIES FOR STREET LIGHTS

## COLOURS

You can choose one of the three colour options for your accessory.

### Accessories Colours

0	Not Painted	1	Grey Colour	6	Special Colour
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Replace (z) in Accessories Code with selected colour from the table above.

## BRACKETS

Our AEROLITE LSL & ECO street lights come without brackets - you must choose one of the brackets below.



<b>Accessories</b>	Bracket Adjustable Aerolite Ø60
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<b>Code</b>	3999-0016-0000-00z0
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<b>Accessories</b>	Bracket Adjustable Aerolite Ø76
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<b>Code</b>	3999-0017-0000-00z0
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<b>Accessories</b>	Bracket Fix Aerolite Ø60
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<b>Code</b>	3999-0018-0000-00z0
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Replace (z) in Accessories Code with selected colour from the table above.

## CONTROL UNITS & PROTECTION

Aerolite luminaires can be upgraded with:

Code	Accessories
3999-0003-0000-0000	iMCU* - intelligent control unit
3999-0004-0000-0000	10 kA Surge Protection Module Class I self turn off
3999-0005-0000-0000	10 kA Surge Protection Module Class II self turn off
3999-0006-0000-0000	Timer control unit 50% dimming (single step)
3999-0007-0000-0000	Timer control unit 1 - 10 V dimming (analog)

\*For luminaires with iMCU 1-10V regulation is required

## SERVICE KIT

Our AEROLITE LSL & ECO street lights are built to last long, depending on climate region it is necessary to change the light gasket.



<b>Accessories</b>	Service KIT Aerolite
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<b>Code</b>	3999-0014-0000-0000
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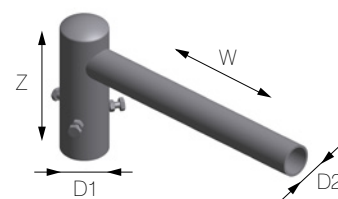
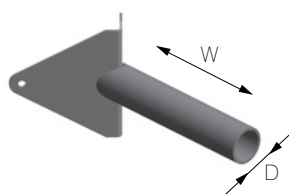
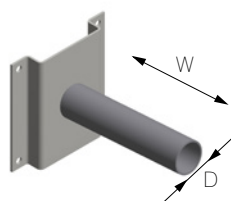
# REDUCTION AND EXTENSION OPTIONS



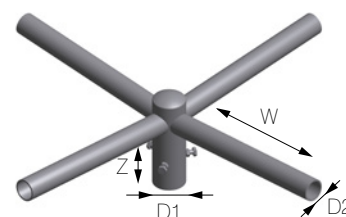
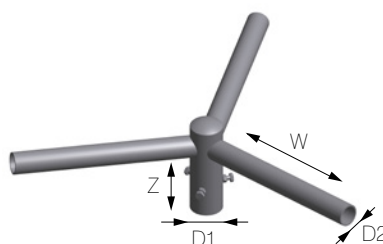
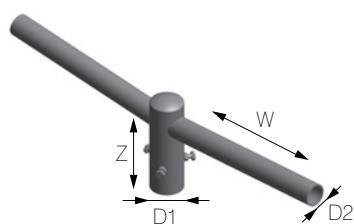
Accessories	Reduction adapter	D1 [mm]	D2 [mm]	Pole reduction	D1 [mm]	D2 [mm]	Z [mm]	Pole extension	D1 [mm]	D2 [mm]	Z [mm]
Code	3999-0015-0000-0000	60	40	3999-0027-0000-00z0	76	60	520	3999-0028-0000-00z0	60	60	1000
								3999-0029-0000-00z0	76	60	1000

# MOUNTING OPTIONS

Different situations require different mounting options. Below information explains and represents different basic mounting option solutions.



Accessories	Wall boom	W [mm]	D [mm]	Wall corner boom	W [mm]	D [mm]	Pole single boom extension	W [mm]	D1 [mm]	D2 [mm]	Z [mm]
Code	3999-0046-0000-00z0	300	60	3999-0045-0000-00z0	300	60	3999-0019-0000-00z0	500	60	60	150
							3999-0020-0000-00z0	500	76	60	200



Accessories	Pole double boom extension	W [mm]	D1 [mm]	D2 [mm]	Z [mm]	Pole triple boom extension	W [mm]	D1 [mm]	D2 [mm]	Z [mm]	Pole quad boom extension	W [mm]	D1 [mm]	D2 [mm]	Z [mm]
Code	3999-0021-0000-00z0	500	60	60	150	3999-0023-0000-00z0	500	76	60	150	3999-0025-0000-00z0	500	76	60	150
	3999-0022-0000-00z0	500	76	60	200	3999-0024-0000-00z0	1000	76	60	200	3999-0026-0000-00z0	1000	76	60	200

TIP: the list includes the most frequently used mounting adapter options. There are more options possible considering different diameter and length

For more data or requirements please contact our Sales department.



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