

"Elegant, slim and eco"

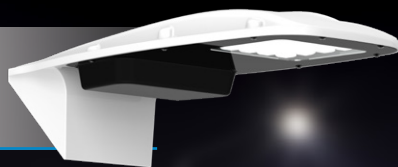
AEROLITE ECO

STREET



GRAH[®]
LED LIGHTING

AEROLITE ECO S



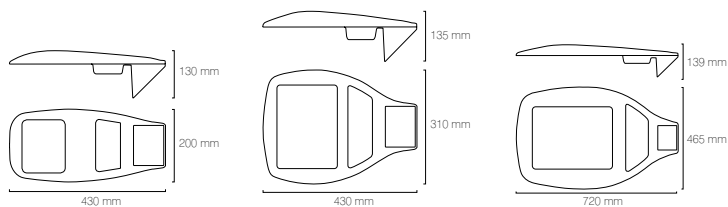
AEROLITE ECO M



AEROLITE ECO L



TECHNICAL SPECIFICATIONS



AEROLITE ECO S

AEROLITE ECO M

AEROLITE ECO L

Supply voltage range:	190-264 V, 50 / 60 Hz		
Surge protection:	4 kV		
Consumption:	12W / 41 W	53 W / 94 W	97 W / 187 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		
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 121 lm/W	up to 114 lm/W	up to 119 lm/W
Luminous flux:	1.100 lm / 4.700 lm	5.900 lm / 10.200 lm	11.100 lm / 20.700 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 ²	0,024 m ²	0,043 m ²
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:	3-6 m	6-10 m	10-15 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 1 7 1 - 0 0 1 1 - 1 2 3 3 - 6 4 1 1 - 0 0 0 0

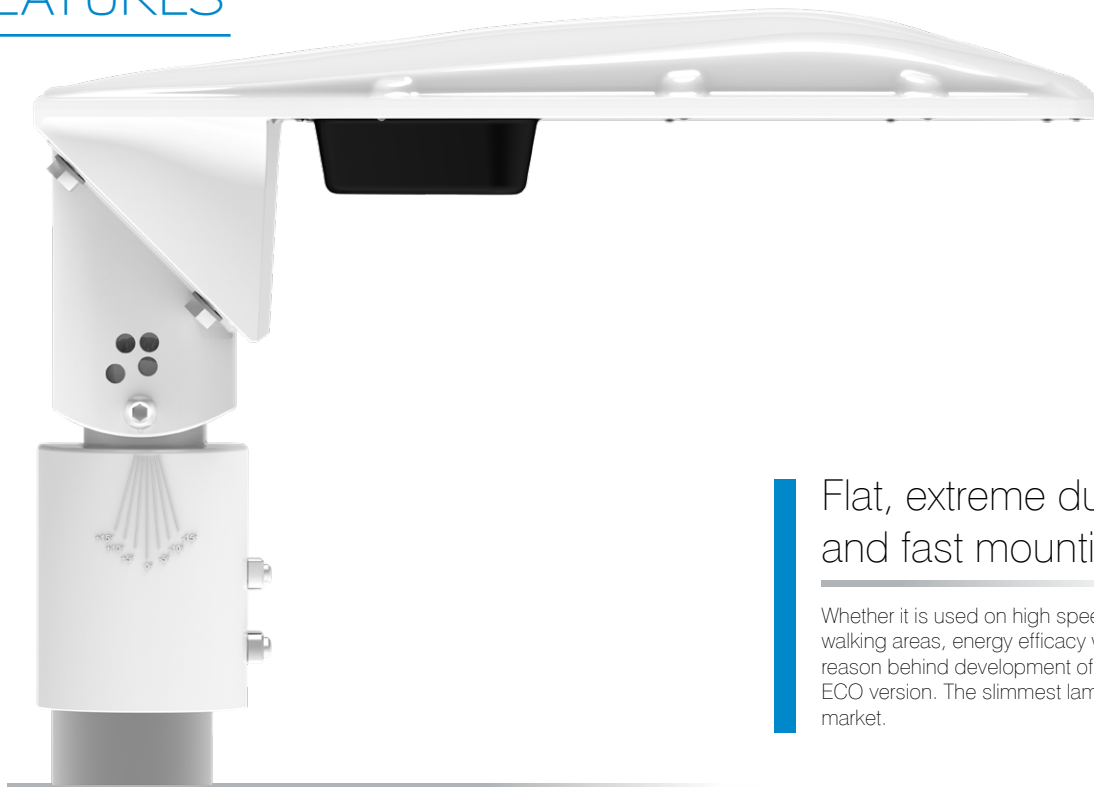
Code	Name	Code	Regulat.	Optics / Lum. fl.[lm]			Power [W]	Code	App. class	Code	Colour Temp.[K]	Code	Hous. Colour	Code	Size		
				23 FN 25 SCL 26 ME 28 T2 29 PX	20 DWC 21 A-T 24 DNW	27 ME- Wide 1											
1171	AEROLITE ECO	0	ON/OFF	011	1100	1100	1100	12	1	SCI	3	3000*	1	Grey	1	S	
				015	1500	1500	1500	16									
				022	2200	2200	2200	20									
				029	2900	2900	2900	29									
				034	3400	3400	3400	28									
				046			4600	41									
				047	4700	4700		41									
				059			5900	53									
				060	6000	6000		53									
				068			6800	65									
				069	6900	6900		65									
				086			8600	77									
				088	8800	8800		77									
				100			10000	94									
				101			10100	94									
				102	10200			94									
				111			11100	97									
				113			11300	97									
				114	11400			97									
				126			12600	115									
				128			12800	115									
				129	12900			115									
				147			14700	127									
				150			15000	127									
				151	15100			127									
				163			16300	151									
				166			16600	151									
167	16700			151													
175			17500	154													
179			17900	154													
180	18000			154													
202			20200	187													
205			20500	187													
207	20700			187													
		1	1-10 V					2	SCII	4	4000	6	Special	2	M		
		2	50% step DIM					5	5000*								
																3	L

*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 accessories
0001	Nema Socket 5
0002	iMCU*
0030	Astro DIM*

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

FEATURES

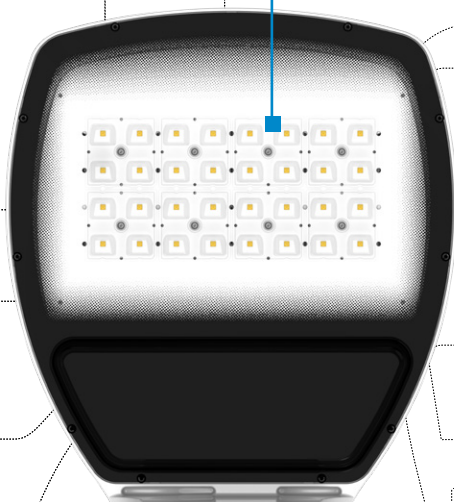
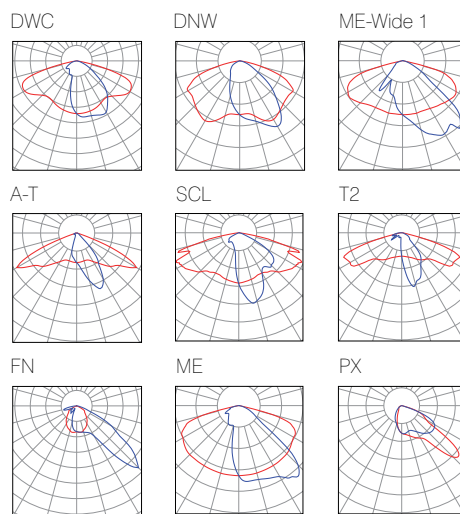


Flat, extreme durability and fast mounting

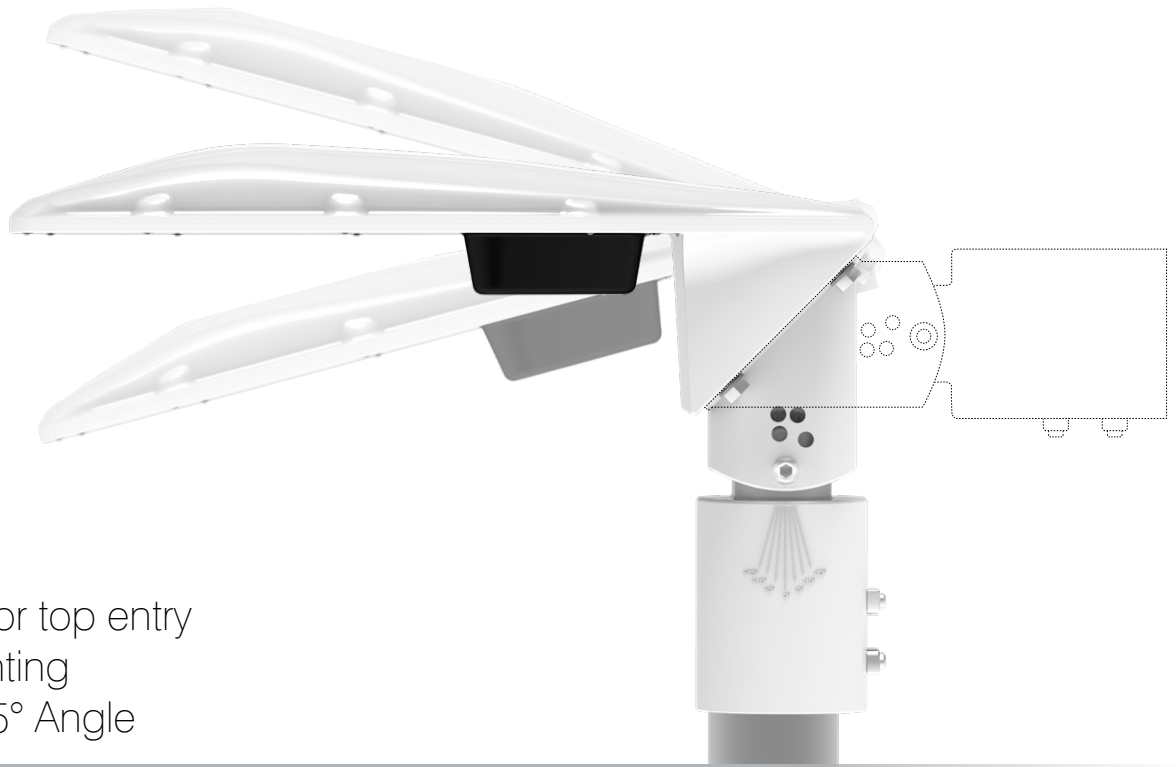
Whether it is used on high speed roads or in walking areas, energy efficacy was the main reason behind development of the Aerolite ECO version. The slimmest lamps on the market.

3 sizes with 9 light distributions

New optics systems for 9 different applications. Aerolite ECO comes with 4 kV surge protection against internal components damage. With the latest LED chip, efficacy is increased up to 121 lm/W. NTC thermistor is used to protect the LEDs from overheating.



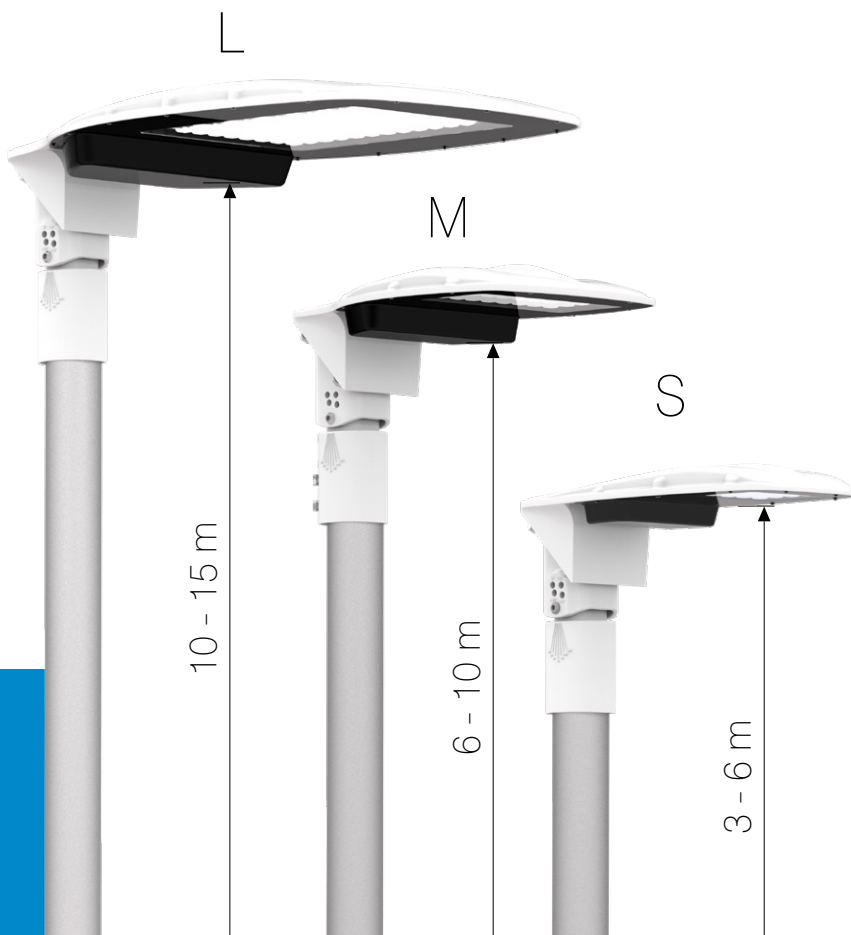
TIP: for detailed information on light distributions and the connection with pole height, distance between poles and road width see brochure: **Street LED Lighting Guidelines**



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 1.100 lm to 20.700 lm and different optics systems, Aerolite ECO 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.



Accessories	Bracket Adjustable Aerolite Ø60
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Code	3999-0016-0000-00z0
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Accessories	Bracket Adjustable Aerolite Ø76
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Code	3999-0017-0000-00z0
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Accessories	Bracket Fix Aerolite Ø60
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Code	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	10kA Surge Protection Module Class I self turn off
3999-0005-0000-0000	10kA 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

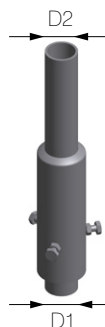
Our AEROLITE LSL & ECO street lights are built to last long, depending on climate region it is necessary to change the light gasket.



Accessories	Service KIT Aerolite
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Code	3999-0014-0000-0000
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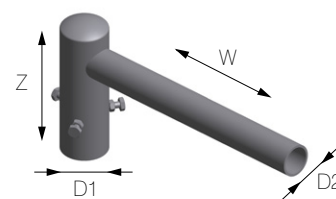
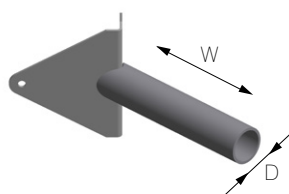
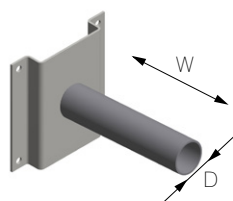
REDUCTION AND EXTENSION OPTIONS



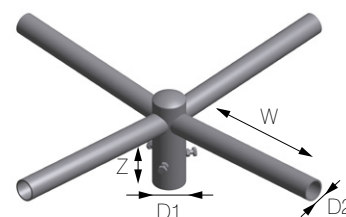
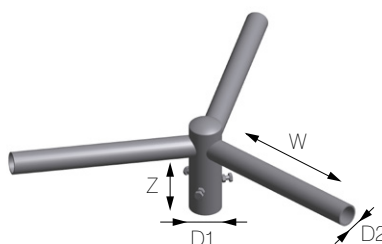
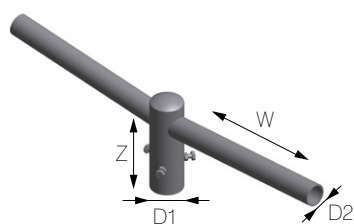
Accessories	Reduction adapter	D1 [mm]	D2 [mm]	Pole reduction	D1 [mm]	D2 [mm]	Z [mm]	Pole extension	D1 [mm]	D2 [mm]	Z [mm]
Code	3999-0015-0000-0000	60	40	3999-0027-0000-00z0	76	60	520	3999-0028-0000-00z0	60	60	1000
								3999-0029-0000-00z0	76	60	1000

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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