



# **CoreLine Malaga LED**

### BRP102 LED72/730 II DM

CoreLine Malaga LED large - LED module 7200 lm - Power supply unit - Safety class II - Distribution medium - Universal for diameter 42 to 60 mm adjustable

The CoreLine Malaga LED family is designed for general Road, Street and Residential application. The family consists of two sizes and uses a Philips standardized design LED engine as light source and a Philips Xitanium fixed output outdoor driver. Quality you can rely on. CoreLine Malaga LED has been designed as efficient as possible, performing the same task as the SON-T 50, 70, 100 and 150W luminaires it replaces; provide the right amount of light in the right place. The medium beam (DM) optic delivers an efficient distribution onto the road. The combination results in interesting energy savings which reduce operating costs significantly. 50% energy reduction is realistically possible. At the same time, the investment in a CoreLine Malaga LED luminaire is in many cases on the same level as an old SON-T luminaire including the first lamp. As the LED light engine in CoreLine Malaga LED will last the life time of the luminaire, just by saving the multiple lamp replacements needed with SON-T will already return the investment in it. Ease of installation is obtained through the extended gland feature; the luminaire does not need to be opened to connect the power cable. At the same time, the flat glass cover can be removed to allow access to the driver for maintenance if required. Adding up the functions and features truly make a choice for CoreLine Malaga LED an easy decision. As a member of the CoreLine family, Malaga LED is easy and quick available thru Philips Partners near you. Simply efficient.;Specials;;In addition to the standard version of CoreLine Malaga LED as described above, also versions with several options are available. As these are specials, and manufactured to order received only, these specials do have a longer delivery time. Options available are;; Wide beam (DW) optic.; Added surge protection device 10kV (SRG10).; Marine Salt Protection (MSP) paint finish, e.g. for coastal areas.; Micro Mini Pro photocell 35 Lux.; Build in (glass) fuse 6A.; 3 meters external flying lead cable (H07RN-F).;Not all these options can always be combined with each other. Please consult your Philips partner for specific details in case of interest or doubt.

Datasheet, 2019, July 17 data subject to change

## CoreLine Malaga LED

#### **Product data**

General Information  Lamp family code  Light source color  Light source replaceable No Number of gear units 1 unit  Driver/power unit/transformer Power supply unit Driver included Yes Optical cover/lens type Flat glass  Luminaire light beam spread		
Light source color 730 warm white  Light source replaceable No  Number of gear units 1 unit  Driver/power unit/transformer Power supply unit  Driver included Yes  Optical cover/lens type Flat glass  Luminaire light beam spread -  Connection Push-in connector and pull relief  Cable -  Protection class IEC Safety class II  Flammability mark -  CE mark CE mark  ENEC mark  ENEC mark  ENEC mark  ENEC mark  Optic type outdoor Distribution medium  Remarks  Protection class IEC Safety class II  Flammability bear spread Syears  Optic type outdoor Distribution medium  Remarks  Protection the product of the product of the median useful life (B50) value also represents the B10 value.  Constant light output No  Number of products on MCB of 16 A type II  BROHS mark  Light source engine type LED  Product family code BRP102 [CoreLine Malaga LED large]  Light Technical  Upward light output ratio O  Standard tilt angle side entry O°  Operating and Electrical  Input Voltage 220 to 240 V  Input Frequency 50 to 60 Hz  Initial CLO power consumption N/A W  Average CLO power consumption N/A W  Inrush current 46 A  Irrush time 440 ms	General Information	
Light source replaceable No Number of gear units 1 unit Driver/power unit/transformer Power supply unit Driver included Yes Optical cover/lens type Flat glass Luminaire light beam spread - Control interface Connection Push-in connector and pull relief Cable - Protection class IEC Safety class II Flammability mark - CE mark ENEC mark ENEC mark ENEC mark Warranty period Optic type outdoor Distribution medium Remarks Per Lighting Europe guidance paper Evaluating performance of LED based luminaires - January 2018": statistically there is no relevant difference in lumen maintenance between B50 and for example B10. Therefore the median useful life (B50) value also represents the B10 value.  Constant light output No Number of products on MCB of 16 A type BRP102 [ CoreLine Malaga LED large]  Light Technical Upward light output ratio O Standard tilt angle posttop Standard tilt angle side entry O°  Operating and Electrical Input Voltage 220 to 240 V Input Frequency So to 60 Hz Initial CLO power consumption N/A W Average CLO power consumption N/A W Inrush current 46 A Inrush current Inrush time Vash mark Inrush time Inrush time  No Inrush current Above Average CLO power consumption N/A W Inrush current Inrush time	Lamp family code	LED72 [ LED module 7200 lm]
Number of gear units Driver/power unit/transformer Power supply unit Driver included Yes Optical cover/lens type Flat glass Luminaire light beam spread - Control interface - Connection Push-in connector and pull relief Cable - Protection class IEC Safety class II Flammability mark - CE mark CE mark ENEC mark ENEC mark Warranty period Optic type outdoor Distribution medium RemarksPer Lighting Europe guidance paper "Evaluating performance of LED based luminaires - January 2018": statistically there is no relevant difference in lumen maintenance between B50 and for example B10. Therefore the median useful life (B50) value also represents the B10 value.  Constant light output No Number of products on MCB of 16 A type B ROHS mark Light source engine type LED Product family code BRP102 [ CoreLine Malaga LED large]  Light Technical Upward light output ratio O Standard tilt angle posttop - Standard tilt angle side entry O°  Operating and Electrical Input Voltage 220 to 240 V Input Frequency 50 to 60 Hz Initial CLO power consumption N/A W Average CLO power consumption N/A W Inrush current 46 A Inrush time 440 ms	Light source color	730 warm white
Driver/power unit/transformer         Power supply unit           Driver included         Yes           Optical cover/lens type         Flat glass           Luminaire light beam spread         -           Control interface         -           Connection         Push-in connector and pull relief           Cable         -           Protection class IEC         Safety class II           Flammability mark         -           CE mark         CE mark           ENEC mark         ENEC mark           Warranty period         5 years           Optic type outdoor         Distribution medium           Remarks         *-Per Lighting Europe guidance paper           "Evaluating performance of LED based         luminaires - January 2018": statistically there           is no relevant difference in lumen         maintenance between B50 and for example           B10. Therefore the median useful life (B50)         value also represents the B10 value.           Constant light output         No           Number of products on MCB of 16 A type         11           B         B           ROHS mark         ROHS mark           Light source engine type         LED           Product family code         BRP102 [ CoreLine Malaga LED large]	Light source replaceable	No
Driver included Yes Optical cover/lens type Flat glass  Luminaire light beam spread - Control interface - Connection Push-in connector and pull relief Cable - Protection class IEC Safety class II Flammability mark - CE mark CE mark ENEC mark Warranty period 5 years Optic type outdoor Distribution medium  Remarks *-Per Lighting Europe guidance paper *Evaluating performance of LED based luminaires - January 2018": statistically there is no relevant difference in lumen maintenance between B50 and for example B10. Therefore the median useful life (B50) value also represents the B10 value.  Constant light output No Number of products on MCB of 16 A type 11 B ROHS mark ROHS mark Light source engine type LED Product family code BRP102 [ CoreLine Malaga LED large]  Light Technical Upward light output ratio 0 Standard tilt angle posttop - Standard tilt angle side entry 0°  Operating and Electrical Input Voltage 220 to 240 V Input Frequency 50 to 60 Hz Initial CLO power consumption N/A W Average CLO power consumption N/A W Inrush current 46 A Inrush time 440 ms	Number of gear units	1 unit
Dytical cover/lens type	Driver/power unit/transformer	Power supply unit
Luminaire light beam spread  Control interface  Connection  Push-in connector and pull relief  Cable  - Protection class IEC  Safety class II  Flammability mark  CE mark  ENEC mark  ENEC mark  Warranty period  Optic type outdoor  Remarks  Per Lighting Europe guidance paper "Evaluating performance of LED based luminaires - January 2018": statistically there is no relevant difference in lumen maintenance between BSO and for example B10. Therefore the median useful life (B50) value also represents the B10 value.  Constant light output  No  Number of products on MCB of 16 A type B  ROHS mark  Light source engine type  LED  Product family code  BRP102 [ CoreLine Malaga LED large]  Light Technical  Upward light output ratio  O  Standard tilt angle posttop  Standard tilt angle side entry  O°  Operating and Electrical  Input Voltage  220 to 240 V  Input Frequency  50 to 60 Hz  Initial CLO power consumption  N/A W  Average CLO power consumption  N/A W  Inrush current  46 A  Inrush time  440 ms	Driver included	Yes
Control interface - Connection Push-in connector and pull relief Cable - Protection class IEC Safety class II Flammability mark - CE mark CE mark ENEC mark ENEC mark Warranty period 5 years Optic type outdoor Distribution medium Remarks *-Per Lighting Europe guidance paper 'Evaluating performance of LED based luminaires - January 2018": statistically there is no relevant difference in lumen maintenance between B50 and for example B10. Therefore the median useful life (B50) value also represents the B10 value.  Constant light output No Number of products on MCB of 16 A type II B ROHS mark ROHS mark Light source engine type LED Product family code BRP102 [ CoreLine Malaga LED large]  Light Technical Upward light output ratio 0 Standard tilt angle posttop - Standard tilt angle side entry 0°  Operating and Electrical Input Voltage 220 to 240 V Input Frequency 50 to 60 Hz Initial CLO power consumption N/A W Average CLO power consumption N/A W Inrush current 46 A Inrush time 440 ms	Optical cover/lens type	Flat glass
Connection Push-in connector and pull relief  Cable - Protection class IEC Safety class II  Flammability mark - CE mark CE mark  ENEC mark ENEC mark  Warranty period 5 years  Optic type outdoor Distribution medium  Remarks "-Per Lighting Europe guidance paper "Evaluating performance of LED based luminaires - January 2018": statistically there is no relevant difference in lumen maintenance between B50 and for example B10. Therefore the median useful life (B50) value also represents the B10 value.  Constant light output No  Number of products on MCB of 16 A type II B  ROHS mark ROHS mark Light source engine type LED Product family code BRP102 [ CoreLine Malaga LED large]  Light Technical Upward light output ratio 0 Standard tilt angle posttop - Standard tilt angle side entry 0°  Operating and Electrical Input Voltage 220 to 240 V Input Frequency 50 to 60 Hz Initial CLO power consumption N/A W Average CLO power consumption N/A W Inrush current 46 A Inrush time 440 ms	Luminaire light beam spread	-
Cable - Protection class IEC Safety class II  Flammability mark - CE mark ENEC mark  Warranty period 5 years  Optic type outdoor Distribution medium  Remarks *-Per Lighting Europe guidance paper *Evaluating performance of LED based luminaires - January 2018*: statistically there is no relevant difference in lumen maintenance between B50 and for example B10. Therefore the median useful life (B50) value also represents the B10 value.  Constant light output No  Number of products on MCB of 16 A type B  ROHS mark ROHS mark Light source engine type LED  Product family code BRP102 [ CoreLine Malaga LED large]  Light Technical Upward light output ratio 0 Standard tilt angle posttop - Standard tilt angle side entry 0°  Operating and Electrical Input Voltage 220 to 240 V Input Frequency 50 to 60 Hz Initial CLO power consumption N/A W Average CLO power consumption N/A W Inrush current 46 A Inrush time 440 ms	Control interface	-
Protection class IEC Flammability mark CE mark CE mark ENEC mark ENEC mark ENEC mark Warranty period Optic type outdoor Optic type outdoor Pemarks  *-Per Lighting Europe guidance paper Evaluating performance of LED based luminaires - January 2018": statistically there is no relevant difference in lumen maintenance between B50 and for example B10. Therefore the median useful life (B50) value also represents the B10 value.  Constant light output No Number of products on MCB of 16 A type B ROHS mark ROHS mark ROHS mark Light source engine type LED Product family code BRP102 [ CoreLine Malaga LED large]  Light Technical Upward light output ratio OStandard tilt angle posttop - Standard tilt angle side entry O°  Operating and Electrical Input Voltage 220 to 240 V Input Frequency 50 to 60 Hz Initial CLO power consumption N/A W Average CLO power consumption N/A W Inrush current Inrush time 440 ms	Connection	Push-in connector and pull relief
Flammability mark  CE mark  ENEC mark  ENEC mark  Warranty period  Optic type outdoor  Distribution medium  *-Per Lighting Europe guidance paper  "Evaluating performance of LED based luminaires - January 2018": statistically there is no relevant difference in lumen maintenance between B50 and for example B10. Therefore the median useful life (B50) value also represents the B10 value.  Constant light output  No  Number of products on MCB of 16 A type B  ROHS mark  ROHS mark  Light source engine type  LED  Product family code  BRP102 [ CoreLine Malaga LED large]  Light Technical  Upward light output ratio  O  Standard tilt angle posttop  Standard tilt angle side entry  O°  Operating and Electrical  Input Voltage  220 to 240 V  Input Frequency  50 to 60 Hz  Initial CLO power consumption  N/A W  Average CLO power consumption  N/A W  Inrush current  46 A  Inrush time  440 ms	Cable	-
CE mark ENEC mark ENEC mark ENEC mark Warranty period 5 years  Optic type outdoor Distribution medium  Remarks  *-Per Lighting Europe guidance paper "Evaluating performance of LED based luminaires - January 2018": statistically there is no relevant difference in lumen maintenance between B50 and for example B10. Therefore the median useful life (B50) value also represents the B10 value.  Constant light output No Number of products on MCB of 16 A type B ROHS mark ROHS mark Light source engine type LED Product family code BRP102 [ CoreLine Malaga LED large]  Light Technical Upward light output ratio O Standard tilt angle posttop - Standard tilt angle side entry O°  Operating and Electrical Input Voltage 220 to 240 V Input Frequency 50 to 60 Hz Initial CLO power consumption N/A W Average CLO power consumption N/A W Inrush current Inrush time A46 A Inrush time	Protection class IEC	Safety class II
ENEC mark  Warranty period 5 years  Optic type outdoor Distribution medium  Remarks  *-Per Lighting Europe guidance paper "Evaluating performance of LED based luminaires - January 2018": statistically there is no relevant difference in lumen maintenance between B50 and for example B10. Therefore the median useful life (B50) value also represents the B10 value.  Constant light output No  Number of products on MCB of 16 A type B  ROHS mark ROHS mark Light source engine type LED  Product family code BRP102 [ CoreLine Malaga LED large]  Light Technical  Upward light output ratio 0 Standard tilt angle side entry 0°  Standard tilt angle side entry 0°  Operating and Electrical Input Voltage 220 to 240 V Input Frequency 50 to 60 Hz Initial CLO power consumption N/A W Average CLO power consumption N/A W End CLO power consumption N/A W Inrush current 46 A Inrush time 440 ms	Flammability mark	-
Warranty period 5 years  Optic type outdoor Distribution medium  Remarks *-Per Lighting Europe guidance paper "Evaluating performance of LED based luminaires - January 2018": statistically there is no relevant difference in lumen maintenance between B50 and for example B10. Therefore the median useful life (B50) value also represents the B10 value.  Constant light output No  Number of products on MCB of 16 A type B  ROHS mark ROHS mark Light source engine type LED  Product family code BRP102 [ CoreLine Malaga LED large]  Light Technical  Upward light output ratio 0 Standard tilt angle side entry 0°  Standard tilt angle side entry 0°  Operating and Electrical Input Voltage 220 to 240 V Input Frequency 50 to 60 Hz Initial CLO power consumption N/A W Average CLO power consumption N/A W End CLO power consumption N/A W Inrush current 46 A Inrush time 440 ms	CE mark	CE mark
Optic type outdoor     Distribution medium       Remarks     *-Per Lighting Europe guidance paper       "Evaluating performance of LED based luminaires - January 2018": statistically there is no relevant difference in lumen maintenance between B50 and for example B10. Therefore the median useful life (B50) value also represents the B10 value.       Constant light output     No       Number of products on MCB of 16 A type B     11       B     ROHS mark       Light source engine type     LED       Product family code     BRP102 [CoreLine Malaga LED large]       Light Technical     Upward light output ratio       Upward light output ratio     0       Standard tilt angle posttop     -       Standard tilt angle side entry     0°       Operating and Electrical     Input Voltage     220 to 240 V       Input Frequency     50 to 60 Hz       Initial CLO power consumption     N/A W       Average CLO power consumption     N/A W       Inrush current     46 A       Inrush time     440 ms	ENEC mark	ENEC mark
Remarks  *-Per Lighting Europe guidance paper "Evaluating performance of LED based luminaires - January 2018": statistically there is no relevant difference in lumen maintenance between B50 and for example B10. Therefore the median useful life (B50) value also represents the B10 value.  Constant light output No  Number of products on MCB of 16 A type B ROHS mark ROHS mark Light source engine type LED Product family code BRP102 [ CoreLine Malaga LED large]  Light Technical Upward light output ratio O Standard tilt angle posttop - Standard tilt angle side entry  O°  Operating and Electrical Input Voltage 220 to 240 V Input Frequency 50 to 60 Hz Initial CLO power consumption N/A W Average CLO power consumption N/A W Inrush current 46 A Inrush time 440 ms	Warranty period	5 years
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maintenance between B50 and for example B10. Therefore the median useful life (B50) value also represents the B10 value.  Constant light output No  Number of products on MCB of 16 A type B  RoHS mark ROHS mark  Light source engine type LED  Product family code BRP102 [ CoreLine Malaga LED large]  Light Technical  Upward light output ratio OStandard tilt angle posttop - Standard tilt angle side entry O°  Operating and Electrical  Input Voltage 220 to 240 V  Initial CLO power consumption N/A W  Average CLO power consumption N/A W  End CLO power consumption N/A W  Inrush current 46 A  Inrush time 440 ms		luminaires - January 2018": statistically there
B10. Therefore the median useful life (B50) value also represents the B10 value.  Constant light output No  Number of products on MCB of 16 A type B  ROHS mark ROHS mark  Light source engine type LED  Product family code BRP102 [ CoreLine Malaga LED large]  Light Technical  Upward light output ratio 0 Standard tilt angle posttop - Standard tilt angle side entry 0°  Operating and Electrical  Input Voltage 220 to 240 V  Input Frequency 50 to 60 Hz  Initial CLO power consumption N/A W  End CLO power consumption N/A W  Inrush current 46 A  Inrush time 440 ms		is no relevant difference in lumen
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B RoHS mark Light source engine type Product family code BRP102 [ CoreLine Malaga LED large]  Light Technical Upward light output ratio Standard tilt angle posttop Standard tilt angle side entry  Operating and Electrical Input Voltage Input Frequency So to 60 Hz Initial CLO power consumption N/A W Average CLO power consumption N/A W End CLO power consumption N/A W Inrush current 46 A Inrush time 440 ms	Constant light output	No
RoHS mark  Light source engine type  Product family code  BRP102 [ CoreLine Malaga LED large]  Light Technical  Upward light output ratio  Standard tilt angle posttop  Standard tilt angle side entry  O°  Operating and Electrical  Input Voltage  1 220 to 240 V  Input Frequency  50 to 60 Hz  Initial CLO power consumption  N/A W  Average CLO power consumption  N/A W  End CLO power consumption  N/A W  Inrush current  46 A  Inrush time  440 ms	Number of products on MCB of 16 A type	11
Light source engine type  Product family code  BRP102 [ CoreLine Malaga LED large]  Light Technical  Upward light output ratio  Standard tilt angle posttop  Standard tilt angle side entry  O°  Operating and Electrical  Input Voltage  1220 to 240 V  Input Frequency  50 to 60 Hz  Initial CLO power consumption  N/A W  Average CLO power consumption  N/A W  End CLO power consumption  N/A W  Inrush current  46 A  Inrush time  440 ms	В	
Product family code  BRP102 [ CoreLine Malaga LED large]  Light Technical  Upward light output ratio  Standard tilt angle posttop  Standard tilt angle side entry  O°  Operating and Electrical  Input Voltage  220 to 240 V  Input Frequency  50 to 60 Hz  Initial CLO power consumption  N/A W  Average CLO power consumption  N/A W  End CLO power consumption  N/A W  Inrush current  46 A  Inrush time  440 ms	RoHS mark	RoHS mark
Light Technical  Upward light output ratio 0  Standard tilt angle posttop -  Standard tilt angle side entry 0°  Operating and Electrical  Input Voltage 220 to 240 V  Input Frequency 50 to 60 Hz  Initial CLO power consumption N/A W  Average CLO power consumption N/A W  End CLO power consumption N/A W  Inrush current 46 A  Inrush time 440 ms	Light source engine type	LED
Upward light output ratio 0  Standard tilt angle posttop -  Standard tilt angle side entry 0°  Operating and Electrical  Input Voltage 220 to 240 V  Input Frequency 50 to 60 Hz  Initial CLO power consumption N/A W  Average CLO power consumption N/A W  End CLO power consumption N/A W  Inrush current 46 A  Inrush time 440 ms	Product family code	BRP102 [ CoreLine Malaga LED large]
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Standard tilt angle side entry  O°  Operating and Electrical  Input Voltage  220 to 240 V  Input Frequency  50 to 60 Hz  Initial CLO power consumption  N/A W  Average CLO power consumption  N/A W  End CLO power consumption  N/A W  Inrush current  46 A  Inrush time  440 ms	Upward light output ratio	0
Operating and Electrical  Input Voltage 220 to 240 V  Input Frequency 50 to 60 Hz  Initial CLO power consumption N/A W  Average CLO power consumption N/A W  End CLO power consumption N/A W  Inrush current 46 A  Inrush time 440 ms	Standard tilt angle posttop	-
Input Voltage 220 to 240 V Input Frequency 50 to 60 Hz Initial CLO power consumption N/A W Average CLO power consumption N/A W End CLO power consumption N/A W Inrush current 46 A Inrush time 440 ms	Standard tilt angle side entry	O°
Input Voltage 220 to 240 V Input Frequency 50 to 60 Hz Initial CLO power consumption N/A W Average CLO power consumption N/A W End CLO power consumption N/A W Inrush current 46 A Inrush time 440 ms		
Input Frequency 50 to 60 Hz  Initial CLO power consumption N/A W  Average CLO power consumption N/A W  End CLO power consumption N/A W  Inrush current 46 A  Inrush time 440 ms	Operating and Electrical	
Initial CLO power consumption N/A W  Average CLO power consumption N/A W  End CLO power consumption N/A W  Inrush current 46 A  Inrush time 440 ms	Input Voltage	220 to 240 V
Average CLO power consumption N/A W  End CLO power consumption N/A W  Inrush current 46 A  Inrush time 440 ms	Input Frequency	50 to 60 Hz
End CLO power consumption         N/A W           Inrush current         46 A           Inrush time         440 ms	Initial CLO power consumption	N/A W
Inrush current         46 A           Inrush time         440 ms	Average CLO power consumption	N/A W
Inrush time 440 ms	End CLO power consumption	N/A W
	Inrush current	46 A
Power Factor (Min) 0.95	Inrush time	440 ms
	Power Factor (Min)	0.95

Controls and Dimming	
Dimmable	No
Mechanical and Housing	
Housing Material	Aluminum die cast
Reflector material	
Optic material	Polymethyl methacrylate
Optical cover/lens material	Tempered glass
Fixation material	Aluminum
Mounting device	Universal for diameter 42 to 60 mm
	adjustable
Optical cover/lens shape	Flat
Optical cover/lens finish	Clear
Overall length	493 mm
Overall width	217 mm
Overall height	79 mm
Overall diameter	520 mm
Effective projected area	0.22526 m²
Color	Gray
Approval and Application	
Ingress protection code	IP65 [ Dust penetration-protected, jet-proof]
Mech. impact protection code	IK08 [ 5 J vandal-protected]
Surge Protection (Common/Differential)	Luminaire surge protection level until 4 kV
	differential mode and 4 kV common mode
Initial Performance (IEC Compliant)	
Initial luminous flux (system flux)	6048 lm
Luminous flux tolerance	+/-7%
Initial LED luminaire efficacy	108 lm/W
Init. Corr. Color Temperature	3000 K
Init. Color Rendering Index	70
Initial chromaticity	SDCM ≤5
Initial input power	56 W
Power consumption tolerance	+/-11%
Over Time Performance (IEC Compl	iant)
Control gear failure rate at median useful	. 10 %
life 100000 h	
Lumen maintenance at median useful	L70
life* 100000 h	
Application Conditions	
Ambient temperature range	-40 to +35 °C
Performance ambient temperature Tq	25 °C
Maximum dim level	Not applicable

## CoreLine Malaga LED

Product Data	
Full product code	871951414358600
Order product name	BRP102 LED72/730 II DM
EAN/UPC - Product	8719514143586
Order code	910770213164
Numerator - Quantity Per Pack	1

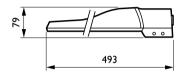
Numerator - Packs per outer box	1
Material Nr. (12NC)	910770213164
Net Weight (Piece)	3.300 kg





#### Dimensional drawing







CoreLine Malaga LED BRP101/102

