

150 lm/W





# REFINED

**TECHNOLOGY** 



#### **LATCHES**

COVER

in maintenance.

Tool-free access to the electrical compartment thanks to well latches design.

The cover is made of tempered glass, it effectively

reduces light pollution and makes the clean work easier





#### **TILTED ADAPTER**

The luminaire features an unique adapter that suitable for poles with Ø40 ... Ø76 mm, tilt function for both side-entry and post-top installations.



The electrical compartment is equipped with an advanced breather valve for improved waterproof and heat dissipation performance.





#### HOUSING

The luminaire body is made of die-cast aluminum, with powder coated finishing for harsh outdoor environments. Streamlined design significantly lower wind resistance as well as guarantees fresh appearance. Prepared hole on the electrical compartment for optional NEMA socket, photocell and shorting cap.

#### **LIGHT SOURCE**

Modular light source with high power LEDs, the LED modules are made of quality polycarbonate lenses and massive aluminum cooling fins, guarantees professional light distributions and thermal management. Available in a wide range of optics improve the necessary flexibility to meet different lighting requirements.

#### SERIES POLESTAR

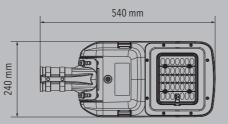
LED MODULES	1 4
POWER	60 240
HIMINOUS FILIX	8300 38500

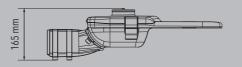
9





### LED LUMINAIRE FOR ROADWAY & PUBLIC AREA LIGHTING





#### TECHNICAL SPECIFICATIONS

Material  Pie-cast aluminum  Finsihing process  Standard colour  Mounting type  Adjustability  Po° [ in 5° step ]  Net weight  Approx. 4.5 kg  Protection class  IP66  Cover  Tempered glass  Impact resistance  PHOTOMETRICAL DATA  Light source type  Optic material  Optic type  Light distributions  Optic type  Light distributions  Type II short  Type III short  Type	LUMINAIRE BODY	
Finsihing process  Standard colour  Mounting type  Adjustability  Net weight  Protection class  Impact resistance  PHOTOMETRICAL DATA  Light source type  Optic material  Optic type  Light distributions  CCT  Jonobus efficacy  SDCM  SDCM  SDCM  SDCM  SDCM  SDCM  SDCM  SELECTRICAL DATA  Power supply  Protection class IEC  Input voltage  Wattage  Power factor  Surge protection  Standard control  Type Ison  Tope Ison		Dia cast aluminum
Standard colour  Mounting type  Adjustability  Net weight  Net weight  Protection class  IP66  Cover  Tempered glass  Impact resistance  PHOTOMETRICAL DATA  Light source type  Optic material  Optic type  Light distributions  CCT  Luminous efficacy  SDCM  CRI  Photobiological risk  ELECTRICAL DATA  Power supply  Protection class IEC  Input voltage  Wattage  Power factor  Surge protection  Standard control  INSTALLATION  Environment  Operating temperature  Operating temperature  Operating temperature  OCAPABILITIES  Lifespan  LED module with 5050 LED  Polycarbonate lens  1x LED module with 5050 LED  Polycarbonate lens  Asymmetrical  Iype I short  Type II short  Type II short  Type III short  3000K / 4000K / 5000K / 5700K  Asymmetrical  Input Volom Asymmetrical  Input volom Asymmetrical  Input voltage  Aow Author Asymmetrical  Input voltage  Aow Author Asymmetrical  Input voltage  Aow C +50 °C  Operating humidity  Type of connection  CAPABILITIES  Lifespan  So,000 hours  No		
Mounting type Adjustability Approx. 4.5 kg Protection class IP66 Cover Tempered glass Impact resistance PHOTOMETRICAL DATA Light source type Optic material Optic type Light distributions CCT Luminous efficacy SDCM CRI Photobiological risk ELECTRICAL DATA Power supply Protection class IEC Input voltage Wattage Power factor Surge protection Standard control INSTALLATION Environment Operating temperature Operating temperature Operating temperature Operating temperature Operating temperature OCAPABILITIES Lifespan LED module with 5050 LED Polycarbonate lens Axymmetrical Inype I short Type II short Type II short Type II short Type III short Type I		
Adjustability  Poo [ in 5° step ]  Net weight  Approx. 4.5 kg  Protection class  Cover  Tempered glass  Impact resistance  PHOTOMETRICAL DATA  Light source type  Optic material  Optic type  Light distributions  CCT  Journal Specific Scy  CRI  Polycarbonate lens  Asymmetrical  Type II short  Type III short  CCT  Solom Scy  Script RG1  ELECTRICAL DATA  Power supply  Built-in LED driver  Protection class IEC  Input voltage  Mattage  Aow  Power factor  Surge protection  Standard control  INSTALLATION  Environment  Application areas  Operating temperature  Operating temperature  Operating humidity  Type of connection  CAPABILITIES  Lifespan  LED module replaceable  No		
Net weight Protection class Cover Impact resistance PHOTOMETRICAL DATA Light source type Optic material Optic type Light distributions CCT Luminous efficacy SDCM CRI Photobiological risk ELECTRICAL DATA Power supply Protection class IEC Input voltage Wattage Power factor Surge protection Standard control Standard control Type Id short Type III short STALLATION To Photobiological risk RG1 ELECTRICAL DATA Power supply Protection class IEC Input voltage 100-240VAC 50/60 Hz 60W Power factor Surge protection Traffic routes and main access roads, city centersand main streets, urban and residential areas, public areas Operating temperature Operating temperature Operating temperature Operating humidity Type of connection CAPABILITIES Lifespan LED module replaceable No	3 71	, , ,
Protection class Cover Impact resistance PHOTOMETRICAL DATA Light source type Optic material Optic type Light distributions OCCT Luminous efficacy SDCM SDCM SDCM SCRI Photobiological risk ELECTRICAL DATA Power supply Protection class IEC Input voltage Wattage Power factor Surge protection Standard control Traffic routes and main access roads, city centersand main streets, urban and residential areas, public areas Operating temperature Operating humidity Type of connection CAPABILITIES Lifespan LED module with 5050 LED Tempered glass IK08 Tempered glass IK08 Tempered glass IK08 Tempered glass IK08  Tax LED module with 5050 LED Polycarbonate lens Osyou LED module with 5050 LED  Ix LED module with 5050 LED Polycarbonate lens Osyou LED module with 5050 LED Osyou LED module with 5050 LED Osyou Lens Osyou Le		·
Tempered glass Impact resistance  PHOTOMETRICAL DATA Light source type Optic material Optic type Light distributions Optic type Light distributions  CCT  Luminous efficacy SDCM SDCM SDCM SDCM SELECTRICAL DATA Power supply Protection class IEC Input voltage Wattage Power factor Surge protection Standard control Standard control Traffic routes and main access roads, city centersand main streets, urban and residential areas, public areas Operating humidity Type of connection CAPABILITIES Lifespan LED module with 5050 LED IK08  IX LED module with 5050 LED Polycarbonate lens Axymmetrical  1x LED module with 5050 LED Polycarbonate lens Axymmetrical  1x LED module with 5050 LED Polycarbonate lens Asymmetrical  1x LED module with 5050 LED Polycarbonate lens Asymmetrical  1x LED module with 5050 LED Polycarbonate lens Asymmetrical  1 ype I short Type II short Type I		11
Impact resistance  PHOTOMETRICAL DATA  Light source type Optic material Optic type Light distributions Optic type Light distributions  CCT  SUMPLIFICAL DATA  ELECTRICAL DATA  Power supply Protection class IEC Input voltage Wattage Power factor Surge protection Standard control Standard control Traffic routes and main access roads, city centersand main streets, urban and residential areas, public areas  Operating temperature Operating humidity Type of connection CAPABILITIES Lifespan LED module with 5050 LED Ix LED module with 5050 LED Polycarbonate lens  1x LED module with 5050 LED Polycarbonate lens  1ype I short Type II short Type II short Type III short Type I		00
PHOTOMETRICAL DATA  Light source type Optic material Optic type Light distributions  CCT Summer supply Protection class IEC Input voltage Wattage Power factor Standard control Standard control Type protection Standard control Traffic routes and main access roads, city centersand main streets, urban and residential areas, public areas Operating temperature Operating humidity Type of connection CAPABILITIES Lifespan  1x LED module with 5050 LED Polycarbonate lens Ax Summer tical Polycarbonate lens Ax LED module with 5050 LED Polycarbonate lens Axymmetrical Ayout Ay		1 3
Light source type Optic material Optic type Light distributions  CCT  Luminous efficacy SDCM CRI Power supply Protection class IEC Input voltage Wattage Power factor Surge protection Standard control Standard control Type III short STALLATION Environment Application areas  Traffic routes and main access roads, city centersand main streets, urban and residential areas, public areas Operating humidity Type of connection CAPABILITIES Lifespan LED module with 5050 LED Polycarbonate lens Asymmetrical  Type II short Type III short Type III short Touble I short Type III		IK08
Optic material Optic type Light distributions Optic type Light distributions  Type I short Type II short Type III short  CCT 3000K / 4000K / 5000K / 5700K  Luminous efficacy SDCM ≤5 CRI ≥70 Photobiological risk RG1  ELECTRICAL DATA Power supply Protection class IEC Input voltage Wattage 60W Power factor Surge protection Standard control Instrallation Environment Application areas Operating temperature Operating humidity Type of connection CAPABILITIES Lifespan LED module replaceable  Polycarbonate lens Asymmetrical Asy		4 150 11 11 5050150
Optic type  Light distributions  Type II short Type III short Typ	5 71	
Light distributions  Type I short Type III short T	'	•
Type II short Type III short Type III short  CCT  3000K / 4000K / 5000K / 5700K  Luminous efficacy  50CM  ≤5  CRI  ≥70  Photobiological risk  ELECTRICAL DATA  Power supply  Protection class IEC Input voltage  Wattage  Fower factor  Surge protection  10 kV line-earth  Standard control  1-10V  INSTALLATION  Environment  Application areas  Operating temperature  Operating humidity Type of connection  CAPABILITIES  Lifespan  LED module replaceable  15000K / 5000K / 5700K  RG1  Evironment  Author  Sality class I  100-240VAC 50/60 Hz  Safety class I  100-240VAC 50/		•
Type III short  CCT  SOOK / 4000K / 5000K / 5700K  Luminous efficacy  SDCM  ≤ 5  CRI  ≥ 70  Photobiological risk  ELECTRICAL DATA  Power supply  Protection class IEC  Input voltage  Wattage  Fower factor  Surge protection  Standard control  Standard control  Traffic routes and main access roads, city centersand main streets, urban and residential areas, public areas  Operating temperature  Operating humidity  Type of connection  CAPABILITIES  Lifespan  LED module replaceable  150 000 K / 5700K  RG1  Evilonation  RG1  Evilonation  RG1  Evilonation  RG1  Evilonation  Built-in LED driver  Safety class I  100-240VAC 50/60 Hz  Safety class I  100-240VAC 50/60 Hz  Solve  Solve  Safety class I  100-240VAC 50/60 Hz  Solve  S	Light distributions	*1
CCT  Luminous efficacy  SDCM  SUBJECTRICAL DATA  SUBJECT Safety class I  SUBJECT Safety class I  SUBJECT Safety class I  SUBJECT SUBJECT SUBJECT  SUBJECT SUBJECT SUBJECT SUBJECT  SUBJECT SU		71
Luminous efficacy  SDCM  SDCM  STO  CRI  Photobiological risk  ELECTRICAL DATA  Power supply  Protection class IEC  Input voltage  Wattage  Fower factor  Surge protection  Standard control  INSTALLATION  Environment  Application areas  Operating temperature  Operating humidity  Type of connection  CAPABILITIES  Lifespan  LED module replaceable  STO  Poore 150 Im/W  STO  STO  STO  STO  SURGE  Safety class I  100-240VAC 50/60 Hz  Solve class I  100-240VAC 50/60 Hz  Safety class I  100-240VAC 50/60 Hz  Solve class I  100-240VAC 50/60 Hz  Solve class I  100-240VAC 50/60 Hz  Solve class I  100-240VAC 50/60 Hz  Safety class I  100-240VAC		31
SDCM  CRI  ≥70  Photobiological risk  ELECTRICAL DATA  Power supply  Protection class IEC  Input voltage  Wattage  Power factor  Surge protection  Standard control  INSTALLATION  Environment  Application areas  Operating temperature  Operating humidity  Type of connection  CAPABILITIES  Lifespan  LED module replaceable  Surge protection  10 kV line-earth  1-10V  Outdoor  Traffic routes and main access roads, city centers and main streets, urban and residential areas, public areas  50,000 hours  No		
CRI ≥70 Photobiological risk RG1  ELECTRICAL DATA  Power supply Built-in LED driver  Protection class IEC Safety class I Input voltage 100-240VAC 50/60 Hz  Wattage 60W Power factor >0.95 Surge protection 10 kV line-earth Standard control 1-10V  INSTALLATION  Environment Outdoor  Application areas Traffic routes and main access roads, city centersand main streets, urban and residential areas, public areas  Operating temperature -40°C +50 °C Operating humidity 10% 90%  CAPABILITIES  Lifespan 50,000 hours  LED module replaceable No		
Photobiological risk  ELECTRICAL DATA  Power supply  Protection class IEC Input voltage  Wattage  Power factor  Surge protection  Standard control  INSTALLATION  Environment  Application areas  Operating temperature  Operating humidity  Type of connection  CAPABILITIES  Lifespan  LED module replaceable  Built-in LED driver  Safety class I  100-240VAC 50/60 Hz  60W  Power factor  > 0.95  Surge protection  10 kV line-earth  1-10V  INSTALLATION  Country  10 wurden  Fraffic routes and main access roads, city centers and main streets, urban and residential areas, public areas  Operating temperature  -40°C +50 °C  Capabilities  Lifespan  50,000 hours  No		_,
Power supply Protection class IEC Input voltage Wattage Power factor Standard control InstraLLATION Environment Application areas Operating temperature Operating humidity Type of connection CAPABILITIES Lifespan LED module replaceable  Power safety class I 100-240VAC 50/60 Hz 60W Power factor Safety class I 100-240VAC 50/60 Hz 60W 100-240VA		=. •
Power supply Protection class IEC Input voltage Wattage Power factor Surge protection Standard control Instrallation Environment Application areas Operating temperature Operating humidity Type of connection CAPABILITIES Lifespan LED module replaceable  100-240VAC 50/60 Hz 60W 100-240VAC 50/60		RG1
Protection class IEC Input voltage  Vattage  Vat		
Input voltage  Wattage  Power factor  Surge protection  Standard control  INSTALLATION  Environment  Application areas  Operating temperature  Operating humidity  Type of connection  CAPABILITIES  Lifespan  LED module replaceable  100-240VAC 50/60 Hz  60W  10W  10W  10W  10W  10W  10W  10W	11.7	
Wattage 60W Power factor >0.95 Surge protection 10 kV line-earth Standard control 1-10V INSTALLATION Environment Outdoor Application areas Traffic routes and main access roads, city centersand main streets, urban and residential areas, public areas Operating temperature -40°C +50 °C Operating humidity 10% 90% Type of connection Capable [ 3-pole ] CAPABILITIES Lifespan 50,000 hours LED module replaceable		,
Power factor >0.95  Surge protection 10 kV line-earth Standard control 1-10V  INSTALLATION  Environment Outdoor  Application areas Traffic routes and main access roads, city centersand main streets, urban and residential areas, public areas  Operating temperature -40°C +50 °C Operating humidity 10% 90%  Type of connection Capable [ 3-pole ]  CAPABILITIES  Lifespan 50,000 hours  LED module replaceable No		
Surge protection  Standard control  INSTALLATION  Environment  Application areas  Operating temperature Operating humidity Type of connection  CAPABILITIES  Lifespan  LED module replaceable  1-10V  Outdoor  Traffic routes and main access roads, city centersand main streets, urban and residential areas, public areas  -40°C +50 °C  10% 90%  Cable [ 3-pole ]  50,000 hours		****
Standard control  INSTALLATION  Environment  Application areas  Operating temperature Operating humidity Type of connection  CAPABILITIES  Lifespan  LED module replaceable  1-10V  Outdoor  Traffic routes and main access roads, city centersand main streets, urban and residential areas, public areas  -40°C +50 °C 10% 90% Cable [ 3-pole ]  50,000 hours		*****
INSTALLATION Environment  Application areas  Traffic routes and main access roads, city centersand main streets, urban and residential areas, public areas  Operating temperature Operating humidity  Type of connection  CAPABILITIES  Lifespan  50,000 hours  No	J 1	
Environment  Application areas  Traffic routes and main access roads, city centersand main streets, urban and residential areas, public areas  Operating temperature  Operating humidity  Type of connection  CAPABILITIES  Lifespan  50,000 hours  No		1-10V
Application areas  Traffic routes and main access roads, city centersand main streets, urban and residential areas, public areas  Operating temperature Operating humidity Type of connection  CAPABILITIES Lifespan LED module replaceable  Traffic routes and main access roads, city centers and main streets, urban and residential areas, public areas  -40°C +50 °C  Cable [ 3-pole ]  CAPABILITIES  Lifespan  No		
centersand main streets, urban and residential areas, public areas  Operating temperature Operating humidity 10% 90% Type of connection CAPABILITIES Lifespan LED module replaceable  centersand main streets, urban and residential areas, public areas  -40°C +50 °C  -50,000 humidity -50,000 hours  -60,000 hours  -60,000 hours		
Operating humidity 10%90% Type of connection Cable [ 3-pole ]  CAPABILITIES Lifespan 50,000 hours LED module replaceable No	Application areas	centersand main streets, urban and
Type of connection Cable [ 3-pole ]  CAPABILITIES  Lifespan 50,000 hours  LED module replaceable No	Operating temperature	-40°C +50 °C
CAPABILITIES Lifespan 50,000 hours LED module replaceable No	Operating humidity	10% 90%
Lifespan 50,000 hours LED module replaceable No	Type of connection	Cable [ 3-pole ]
LED module replaceable No	CAPABILITIES	
	Lifespan	50,000 hours
Optional control DALI, ON/OFF, Photocell	LED module replaceable	No
	Optional control	DALI, ON/OFF, Photocell

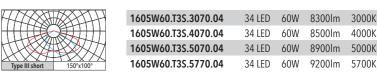
#### PRODUCT CODES





XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	1605W60.T1S.3070.04	34 LED	60W	8300lm	3000
	1605W60.T1S.4070.04	34 LED	60W	8500lm	4000
	1605W60.T1S.5070.04	34 LED	60W	8900lm	5000
/pe I short 150°x100°	1605W60.T1S.5770.04	34 LED	60W	9200lm	5700

	1605W60.T2S.3070.04	34 LED	60W	8300lm	300
	1605W60.T2S.4070.04	34 LED	60W	8500lm	400
	1605W60.T2S.5070.04	34 LED	60W	8900lm	500
e II short 150°x100°	1605W60.T2S.5770.04	34 LED	60W	9200lm	570



<sup>\*</sup>The luminaires are supplied with CRI 70 standard, CRI 80 and CRI 90 optional

Safety class I standard, class II optional

Body colour grey ( 04 ) standard, black ( 03 ) and RAL optional

#### STANDARD ACCESSORIES



+A50	Adapter for pole Ø40 Ø50mm, depth 90mm
+A60	Adapter for pole Ø55 Ø65mm, depth 100mn
+A70	Adapter for pole Ø66 Ø76mm, depth 100mn

#### **OPTIONAL ACCESSORIES**

+03002	On/of
+03010	DALI dimmable
+00250	Photocell
+00260	Shorting cap
+00313	NEMA 3-PIN [ non-dimmable ]
+00315	NEMA 5-PIN [ 1-10V dimmable ]
+00317	NEMA 7-PIN [ DALI dimmable ]

#### **FEATURES**



11





















CONTROL















12

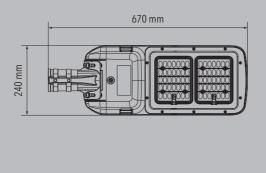
**5** YEARS

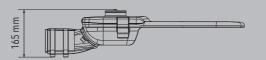
<sup>\*</sup> Example of complete code: 1605W60.T1S.3070.04+A50+03002





### LED LUMINAIRE FOR ROADWAY & PUBLIC AREA LIGHTING





#### TECHNICAL SPECIFICATIONS

LUMINAIRE BODY	
Material	Die-cast aluminum
Finsihing process	Powder coated
Standard colour	Grev
Mounting type	Side-entry / post-top
Adjustability	90° [ in 5° step ]
Net weight	-
Protection class	Approx. 5.4 kg
Cover	Tempered glass
****	IKO8
Impact resistance PHOTOMETRICAL DATA	INUO
	2x LED modules with 5050 LED
Light source type Optic material	
'	Polycarbonate lens
Optic type Light distributions	Asymmetrical
Light distributions	Type I short
	Type II short
ССТ	Type III short
	3000K / 4000K / 5000K / 5700K 150 lm/W
Luminous efficacy	
SDCM	≤5
CRI	≥70
Photobiological risk	RG1
ELECTRICAL DATA	Built-in LED driver
Power supply Protection class IEC	Safety class I
	100-240VAC 50/60 Hz
Input voltage Wattage	100-240VAC 50/60 HZ 120W
Power factor	>0.95
Surge protection	10 kV line-earth
Standard control	1-10V
INSTALLATION	1-100
Environment	Outdoor
Application areas	Traffic routes and main access roads, city
Application aleas	centersand main streets, urban and residential areas, public areas
Operating temperature	-40°C +50 °C
Operating humidity	10% 90%
Type of connection	Cable [ 3-pole ]
CAPABILITIES	
Lifespan	50,000 hours
LED module replaceable	No
Optional control	DALI, ON/OFF, Photocell
-	

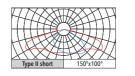
#### PRODUCT CODES



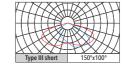


Type I short	150°x100°

1605W120.T1S.3070.04	68 LED	120W	16500lm	3000
1605W120.T1S.4070.04	68 LED	120W	17400lm	4000
1605W120.T1S.5070.04	68 LED	120W	18300lm	5000
1605W120.T1S.5770.04	68 LED	120W	19250lm	5700



68 LED	120W	16500lm	30001
68 LED	120W	17400lm	40001
68 LED	120W	18300lm	5000H
68 LED	120W	19250lm	57001
	68 LED 68 LED	68 LED 120W 68 LED 120W	68 LED 120W 16500lm 68 LED 120W 17400lm 68 LED 120W 18300lm 68 LED 120W 19250lm



1605W120.T3S.3070.04	68 LED	120W	16500lm	3000
1605W120.T3S.4070.04	68 LED	120W	17400lm	4000
1605W120.T3S.5070.04	68 LED	120W	18300lm	5000
1605W120.T3S.5770.04	68 LED	120W	19250lm	5700

\*The luminaires are supplied with CRI 70 standard, CRI 80 and CRI 90 optional

Safety class I standard, class II optional

Body colour grey ( 04 ) standard, black ( 03 ) and RAL optional

#### STANDARD ACCESSORIES



+A50	Adapter for pole Ø40 Ø50mm, depth 90mr
+A60	Adapter for pole Ø55 Ø65mm, depth 100mr
+A70	Adapter for pole Ø66 Ø76mm, depth 100mr

#### **OPTIONAL ACCESSORIES**

+03002	On/of
+03010	DALI dimmable
+00250	Photocell
+00260	Shorting cap
+00313	NEMA 3-PIN [ non-dimmable ]
+00315	NEMA 5-PIN [ 1-10V dimmable ]
+00317	NEMA 7-PIN [ DALI dimmable ]

#### **FEATURES**





















CONTROL







#### COLOURS







\*Example of complete code: 1605W120.T1S.3070.04+A50+03002

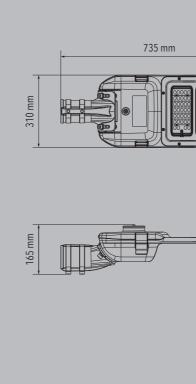
**5** YEARS







### LED LUMINAIRE FOR ROADWAY & PUBLIC AREA LIGHTING



#### TECHNICAL SPECIFICATIONS

LUMINAIRE BODY				
Material	Die-cast aluminum			
Finsihing process	Powder coated			
Standard colour	Grey			
Mounting type	Side-entry / post-top			
Adjustability	90° [ in 5° step ]			
Net weight	Approx. 7.1 kg			
Protection class	IP66			
Cover	Tempered glass			
Impact resistance	IK08			
PHOTOMETRICAL DATA				
Light source type	3x LED modules with 5050 LED			
Optic material	Polycarbonate lens			
Optic type	Asymmetrical			
Light distributions	Type I short			
	Type II short			
	Type III short			
CCT	3000K / 4000K / 5000K / 5700K			
Luminous efficacy	150 lm/W			
SDCM	≤5			
CRI	≥70			
Photobiological risk	RG1			
ELECTRICAL DATA				
Power supply	Built-in LED driver			
Protection class IEC	Safety class I			
Input voltage	100-240VAC 50/60 Hz			
Wattage	180W			
Power factor	>0.95			
Surge protection	10 kV line-earth			
Standard control	1-10V			
INSTALLATION				
Environment	Outdoor			
Application areas	Traffic routes and main access roads, city centersand main streets, urban and residential areas, public areas			
Operating temperature	-40°C +50 °C			
Operating humidity	10% 90%			
Type of connection	Cable [ 3-pole ]			
CAPABILITIES				
Lifespan	50,000 hours			
LED module replaceable	No			
Optional control	DALI, ON/OFF, Photocell			

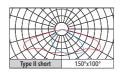
#### PRODUCT CODES





HAAS	
Type I short	150°x100°

1605W180.T1S.3070.04	102 LED	180W	24800lm	3000
1605W180.T1S.4070.04	102 LED	180W	26100lm	4000
1605W180.T1S.5070.04	102 LED	180W	27500lm	5000
1605W180.T1S.5770.04	102 LED	180W	28900lm	5700



1605W180.T2S.3070.04	102 LED	180W	24800lm	30001
1605W180.T2S.4070.04	102 LED	180W	26100lm	4000H
1605W180.T2S.5070.04	102 LED	180W	27500lm	5000k
1605W180.T2S.5770.04	102 LED	180W	28900lm	5700k



1605W180.T3S.3070.04	102 LED	180W	24800lm	3000
1605W180.T3S.4070.04	102 LED	180W	26100lm	4000
1605W180.T3S.5070.04	102 LED	180W	27500lm	5000
1605W180.T3S.5770.04	102 LED	180W	28900lm	5700

\*The luminaires are supplied with CRI 70 standard, CRI 80 and CRI 90 optional

Safety class I standard, class II optional

Body colour grey ( 04 ) standard, black ( 03 ) and RAL optional

#### STANDARD ACCESSORIES



+A50	Adapter for pole Ø40 Ø50mm, depth 90mr
+A60	Adapter for pole Ø55 Ø65mm, depth 100mr
+A70	Adapter for pole Ø66 Ø76mm, depth 100mr

#### **OPTIONAL ACCESSORIES**

+03002	On/of
+03010	DALI dimmable
+00250	Photocel
+00260	Shorting cap
+00313	NEMA 3-PIN [ non-dimmable
+00315	NEMA 5-PIN [ 1-10V dimmable
+00317	NEMA 7-PIN [ DALI dimmable

#### **FEATURES**

























CONTROL





#### COLOURS







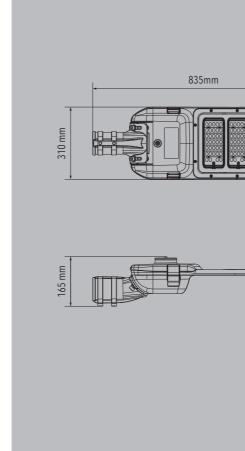
\*Example of complete code: 1605W180.T1S.3070.04+A50+03002

**5** YEARS





### LED LUMINAIRE FOR ROADWAY & PUBLIC AREA LIGHTING



#### **TECHNICAL SPECIFICATIONS**

Material	Die-cast aluminum			
Finsihing process	Powder coated			
Standard colour	Grey			
Mounting type	Side-entry / post-top			
Adjustability	90° [ in 5° step ]			
Net weight	Approx. 8.2 kg			
Protection class	IP66			
Cover	Tempered glass			
Impact resistance	IK08			
PHOTOMETRICAL DATA				
Light source type	4x LED modules with 5050 LED			
Optic material	Polycarbonate lens			
Optic type	Asymmetrical			
Light distributions	Type I short			
	Type II short			
	Type III short			
CCT	3000K / 4000K / 5000K / 5700K			
Luminous efficacy	150 lm/W			
SDCM	≤5			
CRI	≥70			
Photobiological risk	RG1			
ELECTRICAL DATA				
Power supply	Built-in LED driver			
Protection class IEC	Safety class I			
Input voltage	100-240VAC 50/60 Hz			
Wattage	240W			
Power factor	>0.95			
Surge protection	10 kV line-earth			
Standard control	1-10V			
INSTALLATION				
Environment	Outdoor			
Application areas	Traffic routes and main access roads, city centersand main streets, urban and residential areas, public areas			
Operating temperature	-40°C +50 °C			
Operating humidity	10% 90%			
Type of connection	Cable [ 3-pole ]			
CAPABILITIES				
Lifespan	50,000 hours			
LED module replaceable	No			
Optional control	DALI, ON/OFF, Photocell			

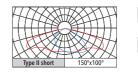
#### PRODUCT CODES





HAAS	
Type I short	150°x100°

1605W240.T1S.3070.04	136 LED	240W	33100lm	3000
1605W240.T1S.4070.04	136 LED	240W	34800lm	4000
1605W240.T1S.5070.04	136 LED	240W	36700lm	5000
1605W240.T1S.5770.04	136 LED	240W	38500lm	5700



1605W240.T2S.3070.04	136 LED	240W	33100lm	3000K
1605W240.T2S.4070.04	136 LED	240W	34800lm	4000K
1605W240.T2S.5070.04	136 LED	240W	36700lm	5000K
1605W240.T2S.5770.04	136 LED	240W	38500lm	5700K



	1605W240.T3S.3070.04	136 LED	240W	33100lm	3000
	1605W240.T3S.4070.04	136 LED	240W	34800lm	4000
	1605W240.T3S.5070.04	136 LED	240W	36700lm	5000
	1605W240.T3S.5770.04	136 LED	240W	38500lm	5700

\*The luminaires are supplied with CRI 70 standard, CRI 80 and CRI 90 optional

Safety class I standard, class II optional

Body colour grey ( 04 ) standard, black ( 03 ) and RAL optional

#### STANDARD ACCESSORIES



+A50	Adapter for pole Ø40 Ø50mm, depth 90mm
+A60	Adapter for pole Ø55 Ø65mm, depth 100mm
+A70	Adapter for pole Ø66 Ø76mm, depth 100m

#### **OPTIONAL ACCESSORIES**

+03002	On/of
+03010	DALI dimmable
+00250	Photocel
+00260	Shorting cap
+00313	NEMA 3-PIN [ non-dimmable
+00315	NEMA 5-PIN [ 1-10V dimmable
+00317	NEMA 7-PIN [ DALI dimmable

#### **FEATURES**







**5** YEARS





















CONTROL





#### COLOURS







RAL

\*Example of complete code: 1605W240.T1S.3070.04+A50+03002

20

