



LED
TECEO 2

THE GREEN LIGHT



URBIS
MEMBER OF SCHRÉDER GROUP GIE

Design: Michel Tortel



CHARACTERISTICS – LUMINAIRES

Optical compartment tightness level:	IP 66 ^(*)
Control gear tightness level:	IP 66 ^(*)
Impact resistance (glass):	IK 08 ^(**)
Aerodynamic resistance (CxS):	0.014m ²
Nominal voltage:	230V - 50Hz
Electrical class:	I or II ^(*)
Weight (total):	17,5kg
Installation height:	6 - 12m

^(*) according to IEC - EN 60598^(**) according to IEC - EN 62262

KEY ADVANTAGES

- Maximised savings in energy and maintenance costs
- Right lighting through LensoFlex2[®] offering high performance photometry, comfort and safety
- LED engines with flexible combinations of LED modules
- FutureProof: photometric engine and electronic assembly is easy to replace on-site
- LEDSafe[®] (option) and ThermiX[®]: maintains performance over time
- Durable and recyclable materials
- Surge protection 10kV

LIGHTING IN AN EFFICIENT AND SUSTAINABLE MANNER

The Teceo offers optimised photometrical performance with a minimum total cost of ownership.

It offers towns and cities the ideal tool to improve lighting levels, generate energy savings and reduce their ecological footprint.

The Teceo 2 can hold up to 144 LEDs and is perfect for large roads, avenues and motorways.

It is equipped with the second generation LensoFlex2[®] photometric engine which offers a high-performance photometry optimised for each specific application with minimum energy consumption.

The Teceo offers flexible combinations of LED modules, a choice of currents and dimming options to further maximise energy savings and provide the most cost-effective solution. A rear bracket version of the Teceo luminaire is available so that streets, side streets and large pavements can be lit using wall mounting.

Colour: AKZO light grey 150 sanded

TECEO  THE GREEN LIGHT

For more details and to follow the progress of the product configurations, please visit our website.

MAXIMUM ENERGY SAVINGS

A minimal total cost of ownership was the driving force behind the development of the Teceo. It is equipped with LEDs and various dimming and remote management options for a dramatic reduction in energy consumption. It offers a very competitive alternative to luminaires equipped with traditional light sources such as high-pressure sodium lamps.

LENSOFLEX2®

The Teceo luminaire is equipped with second generation LensoFlex2® photometric engines that have been specifically developed for lighting spaces where the well-being and safety of people using the environments are essential.

This system is based upon the addition principle of photometric distribution. Each LED is associated with a specific lens that generates the complete photometric distribution of the luminaire. It is the number of LEDs in combination with the driving current that determines the intensity level of the light distribution.

PERFORMANCE AND FLEXIBILITY

The Teceo luminaire is equipped with photometric engines composed of modular quantities of LEDs so that it can offer a wide range of lumen packages. It can also be equipped with a variety of drivers and dimming options.

The Teceo can be adjusted on-site for optimal photometric performance.

This flexibility ensures that the light distributions are specifically adapted to the real needs of the area to be lit.

FUTUREPROOF

Using state-of-the-art technology, the Teceo luminaire has been designed to fulfil the FutureProof concept.

The photometric engine is IP 66 sealed to protect the LEDs and lenses from coming into contact with the outside environment and so maintain photometric performance over time.

The optical unit can be easily removed, allowing real on-site replacement at the end of its service life in order to take advantage of future technological developments.

This easy and rapid procedure reduces maintenance costs and contributes to reducing the total cost of ownership.

This FutureProof concept enables any version of the luminaire to be easily upgraded to take advantage of potential developments. At any stage during the service life, all models can be equipped with a completely new “plug and go” LEDSafe® optical unit (please see photo on the right).



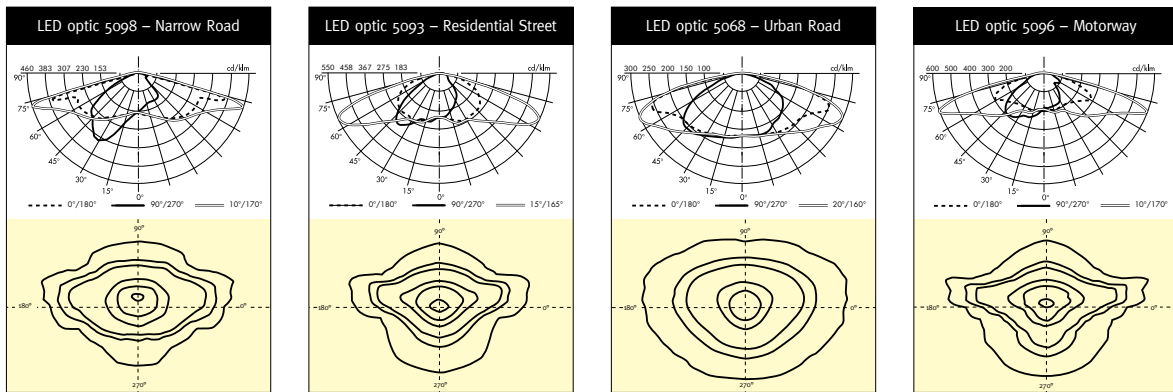
LENSOFLEX2®														Lifetime residual flux @ tq 25°C	
Number of LEDs	Neutral white (4100K)	56 LEDs	64 LEDs	72 LEDs	80 LEDs	88 LEDs	96 LEDs	104 LEDs	112 LEDs	120 LEDs	128 LEDs	136 LEDs	144 LEDs	@60.000h	@100.000h
Current 350mA	Nominal flux (lm)*	7100	8100	9100	10100	11100	12100	13200	14200	15200	16200	17200	18200	90%	70%
	Power consumption (W)	63	71	79	87	95	103	118	126	133	142	149	158		
Current 500mA	Nominal flux (lm)*	9700	11100	12500	13900	15300	16700	18000	19400	20800	22200	23600	25000		
	Power consumption (W)	91	103	115	127	139	151	169	181	193	206	218	230		
Current 700mA	Nominal flux (lm)*	12700	14500	16300	18100	19900	21700	23600	25400	27200	29000	30800	-		
	Power consumption (W)	130	148	173	190	208	226	243	260	277	296	313	-		

(*) The nominal flux is an indicative LED flux @ t_a 25°C based on LED manufacturer's data. The real flux output of the luminaire depends on environmental conditions (e.g. temperature and pollution) and the optical efficiency of luminaire.

Nominal flux depends on the type of LED in use and likely to change in accordance with the continuous and rapid developments in LED technology.

To follow the progress of the luminous efficiency of the LEDs used, please visit our website.

LIGHT DISTRIBUTIONS





Direct access to gear and electronic compartment

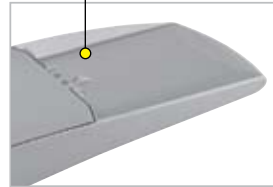
Galvanised steel prop keeping the cover wide open to facilitate maintenance operations

IP 66 electronic compartment

Surge protection up to 10kV

Electrical disconnecter (immediate, automatic disconnection of the power supply)

ThermiX®: large surface area for best possible heat extraction



Sustainable and recyclable materials: aluminium and extra-clear flat glass protector



Modular LED engines for a precise light distribution according to the specific needs of the site to be lit

LensoFlex2®: a photometric engine specifically dedicated to offering photometric flexibility and performance. LEDs in neutral white 4100K (warm white and cool white are optional) equipped with Schröder developed lenses

IP 66 optical compartment sealed by an extra-clear glass protector for an optimal luminous flux

Universal mounting piece
Inclination adjustment system on-site

FutureProof photometric engine, easily removed and replaced on-site to take advantage of future technological developments (photo shows LEDSafe® variant)



Side-entry or vertical mounting



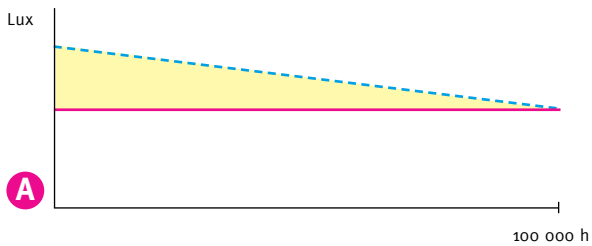
MAINTAINING THE LUMINOUS FLUX OVER TIME

With a conventional solution, the depreciation of the luminous flux over time leads to excess lighting - and thus too much energy consumption - when the luminaires are installed so that the efficiency declines slowly to reach the minimum required level at the end of the installation's service life (graph A).

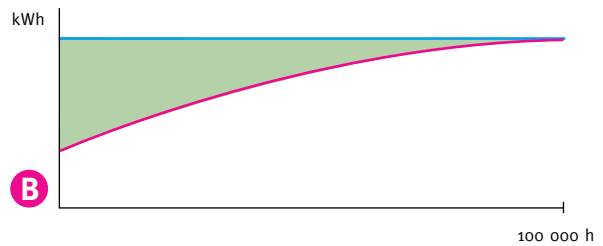
The Teceo works differently by operating with a constant luminous flux (Constant Light Output - CLO).

It controls precisely and autonomously its energy needs during the luminaires' life cycle to provide the required level constantly - no more and no less - throughout the service life (graph B).

This can generate additional energy savings of up to 10% for a lifetime of 100,000 hours (L70).



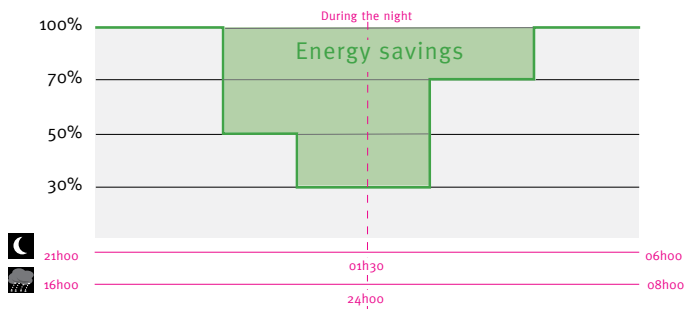
- Standard LED lighting level
- Lighting level required = LED lighting level solution with CLO
- Excess lighting



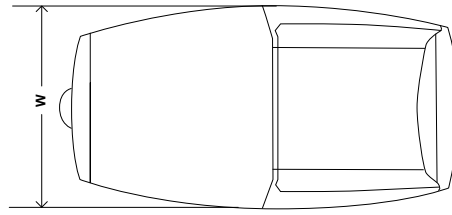
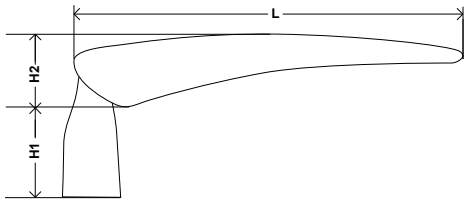
- Standard lighting consumption
- LED lighting consumption with CLO
- Energy savings

VARIABLE INTENSITY (DIMMING) FOR EFFICIENT AND COMFORTABLE LIGHTING

The right lighting is adapting precisely the quantity of light according to the real needs at a specific time (depending on daylight and more importantly activity in the area). Dimming systems can generate substantial energy savings. The Teceo can be equipped with different dimming and remote management systems.



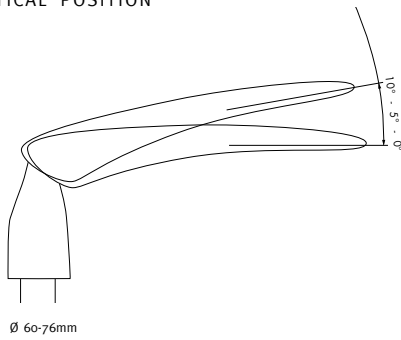
DIMENSIONS



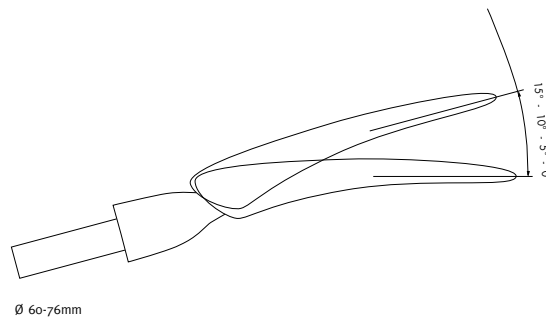
Teceo 2	
W	439mm
L	788mm
H1	138mm
H2	119mm

MOUNTING

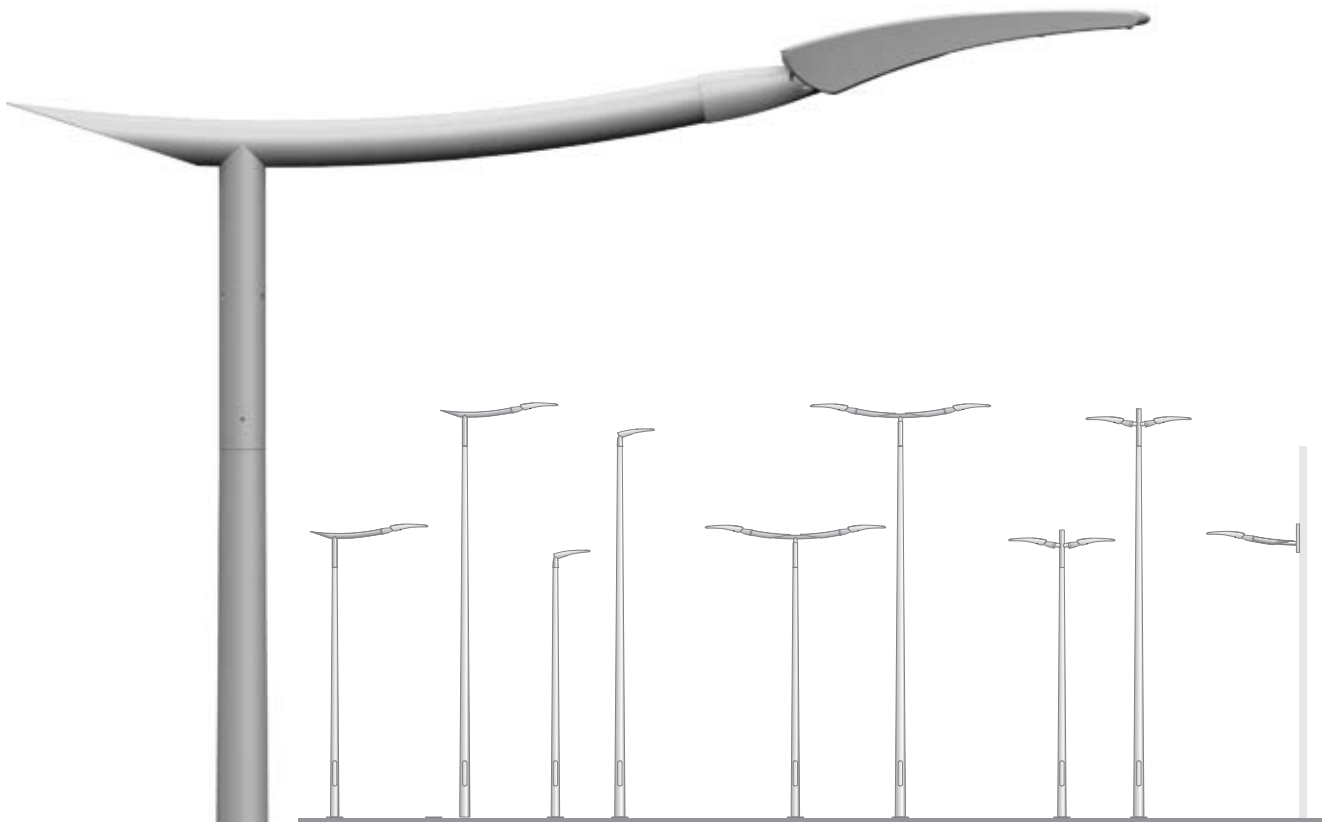
VERTICAL POSITION



SIDE-ENTRY POSITION



ITO COLUMNS AND BRACKETS



PACKS AND OPTIONS

			Economy	Performance	Premium
OPTICS					
LensoFlex2®	No. LEDs	Teceo 2: 56-64-...-144	●	●	●
	Photometrical distributions	4	●	●	●
	CCT LED	Neutral White	●	●	●
		Warm White	○	○	○
Cool White		○	○	○	
FutureProof		●	●	●	
LEDSafe® module	Pre-installed	X	X	●	
Protector	Glass	Extra-clear	●	●	●
		High efficiency	X	○	○
Embellishment plate		X	X	●	
ELECTRICAL					
Power range	Driving current	350mA	●	○	○
		500mA	X	●	●
		700mA	X	○	○
Constant Light Output (*)		X	○	○	
Dimming/switching control	1-10V		X	○	○
	Bi-Power	50%	X	○	○
	Profile	custom	X	○	○
	Photo cell		○	○	○
	OWLET remote mgt.	LuCo	X	○	○
Electrical Class	Class II		●	●	●
	Class I		○	○	○
Surge protection		10kV	●	●	●
Disconnecter		Upon opening	○	○	○
MECHANICS					
Mounting	ø 60mm	2M8 screws	●	●	●
		+ stainless steel bar	X	○	●
	ø 76mm	2M8 screws	●	●	●
		+ stainless steel bar	X	○	●
Cover bracket holder		●	●	●	
OTHERS					
Gear plate			X	○	○
Pre-cabled		custom length	○	○	○
Colour	Light grey	AKZO 150	●	●	●
	All RAL and AKZO		○	○	○

● included

○ optional

X not available

(*) only for versions equipped with 32 LEDs and more





LED GENERATION

URBIS