

THORN

CiviTEQ

Cost-effective LED road lighting solution for refurbishment



CiviTEQ
Road lighting solution



CiviTEQ

ROAD LIGHTING REFURBISHMENT SOLUTION

✓ Flexible ✓ Functional ✓ High Performance

Trust us to save you more

Many local authorities are in a situation where they have outdated public lighting installations that are in desperate need of refurbishment; however they only have limited budgets to do so. CiviTEQ has been designed with this in mind and offers the most cost-effective solution for all refurbishment projects. It hosts a magnitude of features to save local authorities more, these include advanced lighting control options, smart long lasting construction, best in class optical performance and many installation considerations to make contractors lives easier.

Pedestrian



Pathways

50W

Streets



Residential streets

70W



Shared areas, residential and commercial

100W

Roads



Minor Roads

150W



Major roads

250W

10m

8m

6m

4m

CiviTEQ S 4000lm

CiviTEQ S 6000lm

CiviTEQ S 8000lm

CiviTEQ L 12000lm

CiviTEQ L 17000lm



CiviTEQ has been engineered to deliver flexibility and functionality combined with the latest LED technology for high performance on all road classifications. The CiviTEQ range is able to adapt to any installation layout with a solution that is free from light pollution.

CiviTEQ

Easy installation and maintenance

From its conception, CiviTEQ designers have considered the difficulties that installers typically encounter when installing or maintaining at height. CiviTEQ offers simple and intuitive handling allowing quick and easy operation with the minimum of tools.



Easy to install

- Compact and lightweight for easy handling
- Multi-spigot diameters reversible in post-top and lateral mounting
- Spigot fixation and tilt setting in one operation
- Time saving 'Plug and Play' connections
- Clearly labelled components for simplicity
- Flexibility at lighting point with the Bi-Power Switch

Easy to maintain

- Access from above in an ergonomic position
- Convenient access via easy to open clip
- Canopy retained for extra safety during maintenance operation
- Extra-long life time of the driver reduces the maintenance cycle
- Flat glass enclosure for rapid cleaning
- For increased safety when the canopy is opened, an automatic cut-off device isolates the lantern from the power source



CiviTEQ has been built to last. Its design incorporates many smart features to ensure longevity, easy installation, reduced maintenance and flexibility.

- Exceptional thermal performance with anti-dust and water collecting surface
- Compact size with optimum weight/dimensions at a given flux output
- Multi - use spigot for easy retrofit onto existing columns and brackets
- Sustainable design from high quality materials
- Ultra durable reinforced flat glass optical cover resilient to unsightly ageing and discoloration
- Easily adjustable tilting for accurate beam control
- External front and back louvres can be easily fitted retrospectively without disconnection for extra light control and comfort



Advanced lighting controls

Energy savings and lighting controls are key drivers for refurbishment projects. CiviTEQ has a wide range of control options which let you tailor the luminaire to perfectly match the project requirements. With CiviTEQ you can rest assured that you have the most efficient use of energy, excellent quality of light and improved comfort and safety for road users.

1. Lighting controls: 12 lighting distributions, adjustable tilting, louvres
2. Energy savings: ALO, CLO, Dimming (BP, BPS, BPL, LRT)
3. Protections: 10KV, automatic disconnection (ADC), mains dimming
4. Controls and Smart Lighting: Radio frequency (RF), Power line (PL), DALI (HFX)

CiviTEQ features the class-leading optical performance of the R-PEC optic. R-PEC offers 12 precision light distributions, achieving wide column spacing, excellent uniformity plus no waste or obtrusive light.

Best in class optics



1.35								
1.2	RC	NR	PWC					
1						RWET		
0.85	SC	WR	WSC	WS				IVS
0.7					EWR			
0.6								
0.45			EWSC	EWS				
ratio Height/width	ME Comfort	ME	S Comfort	S	CE Class	MEW		Pedestrian crossing
	Dry condition					Wet condition		



OptiBLOC®:

CiviTEQ's performance credentials are enhanced with OptiBLOC® technology. OptiBLOC® is a double IP66 sealing system for the gear compartment and optic which guarantees longevity of the components and extended performance throughout the lifetime of the luminaire.

Cost-effective LED road lighting solution for refurbishment

- Offers the best balance between cost of ownership and performance. Fitted with R-PEC® optic to bring safe and efficient light to residential streets and high traffic roads
- Available in 2 sizes up to 17klm, 12 precise light distributions and versatile installation possibilities - CiviTEQ adapts to any installation layout
- Comprehensive range of controls incorporating the Bi-Power Switch to activate or deactivate dimming onsite
- Compact and lightweight luminaire for easy handling and installation with a low windage
- Long 100,000 hours life time B10L90 @ Ta25°C resulting in low maintenance costs

Applications

- Major roads: within and between cities, up to Me3 lighting class
- Minor roads: mixed traffic and residential streets
- Walking/cycling paths, car parks and roundabouts

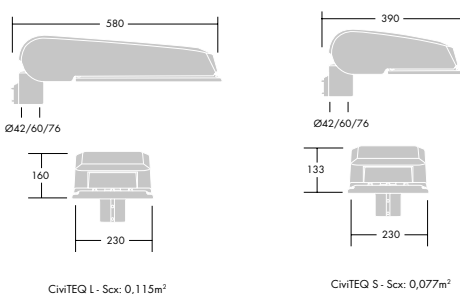
Light Source

- From 12 LED to 72 LED
- 100 000hrs Drivers and LEDs (L90) at Ta25°C
- Luminaire efficacy up to 130lm/W
- Up to 17 000lm (156W)
- Colour Temperature 4000K but also 3000K and 5700K
- CRI: 70
- McAdams: 5 Ellipses
- Surge protection: 6kV mostly, 10kV on request

Standards



Product dimension



Materials/Finish

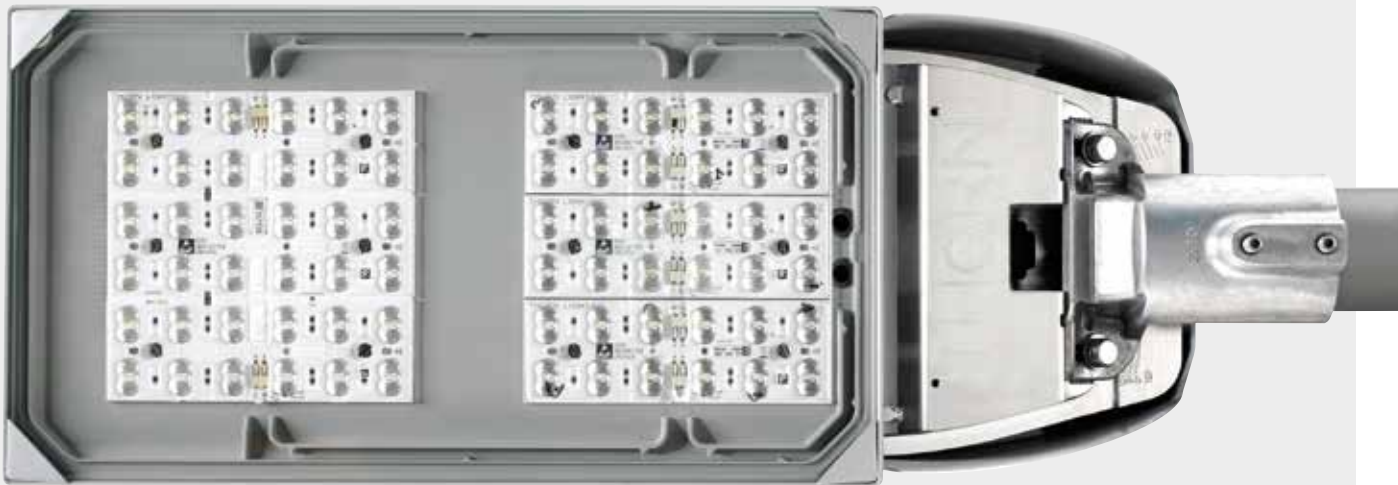
Performance version: Canopy: die-cast aluminium, powder coated grey RAL 9006 (other RAL colours on request) with rear clip in stainless steel.
 Basic version with canopy in glass reinforced polycarbonate, RAL 9006 with antigelvanic stainless steel screws
 Body: die-cast aluminium unpainted
 Spigot: plain die-cast aluminium
 Enclosure: toughened glass
 Screws: stainless steel

Installation/Mounting

CL1: Suitable for mounting on top Ø76mm or side Ø60mm or Ø42mm (Ø60mm delivery with reducer MA34/42mm fitted)
 CL2: Suitable for mounting on top Ø76mm or side Ø60mm (Ø34/42mm with accessory 96261772)
 Variable tilting setting: 0° to +10° on post top mounting and -20° to 0° on lateral mounting, in 5° steps.
 Accessory to set at horizontal 0° the luminaire when retrofitted in side entry onto 45° tilt arm
 Cable gland for Ø8 to 12mm cable. Delivered complete and ready to install, all supplied in a single carton

Specification

To specify state:
 Unobtrusive, cost effective road lighting solution featuring R-PEC® and Optibloc® with 12 precise lighting distributions, fully versatile installation possibilities, low maintenance requirements and no need to replace LED driver. CMS with Radio Frequency and Powerline system, is also compatible with other controls systems. Choice of options and accessories: 10KV, automatic disconnection, BPS, LRT, photocell and external louvres.
 As Thorn CiviTEQ.



Output Flux

The tables below describe the indicative flux and output power of the available versions depending of the number of Leds and current.

The multipliers help understand the behaviour of the luminaire under different conditions and get a more precise value for the performances.

The luminaire efficiency (expressed in lm/W) must be calculated as the ratio between the output luminous flux of the luminaire and the power absorbed by the unit.

The tables also show the nominal LED flux so as to show the luminaire efficiency and for the ease of comparison between solutions.

Those values are subject to modifications as our continuous work towards the most efficient solutions

For precise measured values please use the photometric data of the preferred version. All measured values are subject to a tolerance of +/- 10% inherent to the technology and in accordance to IEC PAS 62722-2-1:2011

CiviTEQ S

Current value	Number of LED	System Power	Nominal Efficiency	Luminaire useful flux	Luminaire efficiency	Lifetime at 25°C	
						B50>	B10
mA	unit	W	LM/W	LLm	LLm/W		
350	12	14	133	1,670	115	100,000 hours L90	100,000 hours L90
	24	27	142	3,330	123		
	36	38	150	4,980	130		
500	12	20	132	2,280	114		
	24	38	140	4,350	121		
	36	54	144	6,770	125		
700	12	28	127	3,020	110		
	24	52	134	6,000	116		
	36	76	135	8,930	117		
1050	12	41	117	4,150	101	100,000 hours L85	100,000 hours L85
	24	79	121	8,250	104		

CiviTEQ L

Current value	Number of LED	System Power	Nominal Efficiency	Luminaire useful flux	Luminaire efficiency	Lifetime at 25°C	
						B50>	B10
mA	unit	W	LM/W	LLm	LLm/W		
350	48	51	151	6,400	125	100,000 hours L90	100,000 hours L90
	60	63	152	7,970	127		
	72	76	151	9,520	125		
500	48	72	146	8,730	121		
	60	90	144	10,830	120		
	72	109	142	12,920	119		
700	48	106	132	11,560	109		
	60	129	133	14,280	111		
	72	156	131	16,960	109		

Multipliers

Flux as function of colour temperature		Flux as function of Optic	
3000K	0.91	NR	1
4000K	1.000	WR	1.01
5700K	1.037	WS	0.985
		WSC	1.008
		EWS	0.989
System power as function of Ta		EWSC	1
35°C	0.99	RWET	1.019
25°C	1.00	RC	1.03
15°C	1.01	SC	1
		PWC	1.027
		IVS	0.992
		EWR	0.994

* +/- 10% tolerance on wattage/flux measurements

CiviTEQ Brackets

Product Features

A comprehensive collection of functional bracket packages to achieve a fully harmonised design within the CiviTEQ range



- Specifically designed for CiviTEQ with the perfect balance between functionality and aesthetics
- Options of single or twin arms, wall or side brackets are available
- The flexibility of the range allows for various applications and layouts with consistent design
- Solid but lightweight and an included cable puller make it easy to install which is one of the essentials of CiviTEQ

Standards

EN40 CE

Materials/Finish

Painted galvanized steel, texturised light grey close RAL 9006 (any other RAL on request)
Decorative insert in steel
Top end cap: Polypropylene, black

Installation/Mounting

The tube is fixed inside the post top which is available as Ø60mm or Ø76mm with 3x120° screws in 2 rows

Cable complete with cable puller

Specification

To specify state:

Steel galvanized texturised light grey bracket with black top end cap. Rectangular arm tilted 10° and welded decorative insert.

Suitable for Ø60mm or Ø76mm top

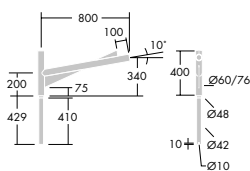
Ordering Guide

Type	Arm Length	Tilt Angle	Pole Top Ø	Net Wt (kg)	SAP Code
Single Bracket	1x800mm	+10°	60mm	7,7	96269056
	1x800mm	+10°	76mm	7,7	96269057
Double Bracket	2x800mm	+10°	60mm	11,7	96269058
	2x800mm	+10°	76mm	11,7	96269059
Wall Bracket	500mm	+10°	-	4,4	96269060
Mid Pole Bracket	500mm	+10°	-	4,2	96269061

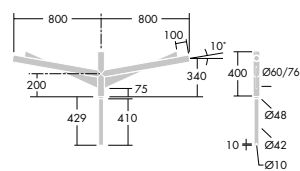
Available on request (subject to calculations)

- Different arm length
- Different tilt angle

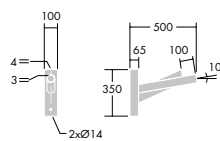
Product dimensions



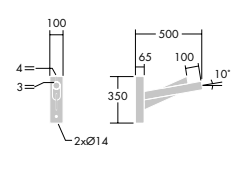
Weight: 7.7kg
Scx: 0.87m²
Single bracket



Weight: 11.7kg
Scx: 1.53m²
Double bracket



Weight: 4.4kg
Scx: 0.59m²
Wall Bracket



Weight: 4.2kg
Scx: 0.58m²
Mid pole bracket

Configuration Guide

CiviTEQ versions will be available in November 2015 - please contact your local sales representative.

Example SAP designation

CQ	36L	70	757	BPS	NR	CLO	CL1	PN	MA60	PC	ADC	HFX	PL	6F	10KV	W8M	MTP5	GY	R6012	
																			Rxxx	RALxxx
																		GY	Light grey full body including spigot	
																		MTP60F	Mounting Adaptor setup in Post-Top D60mm+5° tilt	
																		MTP76F	Mounting Adaptor setup in Post-Top D76mm+5°	
																		MLE42E	Mounting Adaptor setup in Post-Top D42mm+0°	
																		MLE60E	Mounting Adaptor setup in Post-Top D60mm+0°	
																		6M	6M pre-wired	
																		8M	8M pre-wired	
																		10M	10M pre-wired	
																		D8M	8M pre-wired 5G DE	
																		10kV	10kV protection	
																		6F	6A fuse	
																		xF	xA fuse	
																		PL	Power Line control cable	
																		RF	Radio Frequency control cable	
																		HFX	DALI cable	
																		ADC	Automatic Disconnection	
																		PC	Plastic canopy	
																		MA42	Mounting Adaptor D42mm	
																		MA60	Mounting Adaptor D60mm	
																		MA76	Mounting Adaptor D76mm	
																		PN	Plus Nema socket	
																		PM	Plus Minicell IP65	
																		SPN	Nema Socket 5 PIN	
																		PMxx	Plus Minicell other	
																		CL1	Electrical Class I	
																		CL2	Electrical Class II	
																		CLO	Constant Light Output	
																		RC	Road & Comfort optic	
																		RWET	Road Wet optic	
																		NR	Narrow Road optic	
																		WR	Wide Road optic	
																		WS	Wide Street optic	
																		WSC	Wide Street & Comfort optic	
																		EWS	Extra Wide Street optic	
																		EWSC	Extra Wide Street & Comfort optic	
																		EWR	Extra Wide Road optic	
																		IVS	Pedestrian Crossing optic	
																		SC	Street & Comfort optic	
																		PWC	Pedestrian and cycle paths optic	
																		BPS	Bi-Power Switch (8h-50% output reduction, dimming activated)	
																		BPx-xx	Bi-Power (xh-x% output reduction)	
																		BPL	Bi-Power Line switch	
																		LRT	Light Reduction Twin phases	
																		730	3000K CRI70	
																		740	4000K CRI70	
																		757	5700K CRI70	
																		35	350mA	
																		50	500mA	
																		70	700mA	
																		105	1050mA	
																		xx	xxmA	
																		12L	12 LEDs	
																		24L	24 LEDs	
																		36L	36 LEDs	
																		48L	48 LEDs	
																		60L	60 LEDs	
																		72L	72 LEDs	
CQ	CiviTEQ																			

How to order your CiviTEQ.

One of the main features of CiviTEQ is all of the different options and variants that can be specified, so in order to make it easier to order your CiviTEQ we have produced this configurator which allows you to create the exact product you require from the options and variants listed. Once you have created your unique designation then your sales representative can quickly find out the SAP code, associated price and time schedule for delivery.

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