

# THORN

## Civic



To meet the growing demand for roadlighting lanterns which offer high quality and performance standards, CIVIC has been designed to give the fullest offer in range, reliability, simplicity, security and performance value.



As well as maximising safety and visual comfort, modern luminaires must be efficient, versatile and reliable, minimise light pollution, be quick to install, improve energy management and bring visual harmony to the urban landscape.

Civic is a range of high performance road and street lighting luminaires designed, engineered and manufactured specifically to meet these needs. Its unique optical system delivers uniform lighting precisely where it is needed. It offers best value and the most versatile range for use on major traffic routes, secondary roads, town and city streets.

- Choice of two body sizes
- Shallow bowl or flat glass enclosure
- High quality aluminium construction and variable mounting option
- Range of lamp options from 42W to 250W
- Quick, easy and safe installation
- Photocell, dimming and energy management versions
- Electronic ballast versions
- Vandal proof versions
- Residential distribution option for sites where a "softer" cut-off is required.



# Civic - Made to last

## Materials and vandal resistance

The very best in recyclable materials and manufacturing technology account for the excellent quality of this range. The predominant use of aluminium and stainless steel provide a durable, lightweight yet strong, weather and vibration resistant collection to deliver year upon year of outstanding performance.

Fully replaceable 'one piece' gear box

IP66 dust tight and jet proof protects reflector, lamp, enclosure and gear from external elements and pollution

Lightweight die cast aluminium body and gear canopy with powder coat painted finish for durability and resistance to aggressive conditions

Enclosure secured by two stainless steel clips



Flat enclosure in toughened glass  
Shallow bowl enclosure in shock resistant UV stabilised polycarbonate

Die cast aluminium rotating one piece spigot flips inside body to offer top or side entry

Anodised high purity aluminium reflector ensures high output and uniform distribution is maintained throughout lifetime of lantern.

Choice of shallow bowl or toughened flat glass enclosure give a different light 'cut off' to meet the needs of the application



Double IP66 (optic and gear)

### Vandal proof version



In the fight against luminaire vandalism, Thorn have developed the 'vandal proof' label.

Lanterns are subjected to a series of rigorous tests that have been developed in partnership with an external security laboratory. Only those products that continue to operate after the tests and despite aesthetic damage, are awarded the 'vandal proof' label. Tests include:

- 4.5mm air rifle pellet at 5 metres
- 15g steel ball catapult shot at 5 metres
- Repeated hammer strikes to the lit part of the lantern
- Vibration test on 5 metre column to simulate repeated shaking
- Attempts to destroy lantern with pocket knife and lighter

Civic's vandal resistant features include:

- Closure clips locked by special screws
- Tamperproof gear canopy screws
- Standard spigot fixing screws and locknuts needing both hands and tools to release





A host of design features mean that the installation and maintenance of Civic is simplicity itself.



*Gear canopy with retainer and anti-vibration screws*



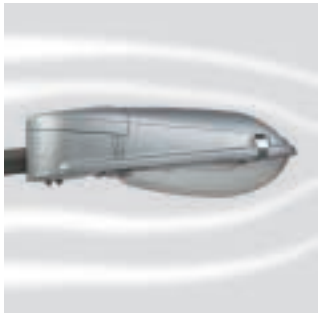
*Two screws and locknuts for secure post top and side entry mounting*



*Stainless Steel retaining clips ensure safe opening of the enclosure during installation and maintenance*



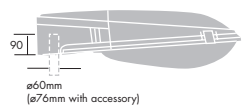
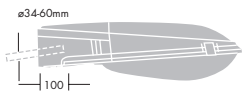
*Tool-free enclosure removal*



The unique design of Civic results in low wind resistance and reduced weight allowing installation on lighter columns

It's lightweight construction, rotating one piece spigot and removable gearbox are just some of the features that keep time, cost and the risk of injury to an absolute minimum.

- Minimal and simplified handling operations
- Gear canopy with retainer and anti-vibration screws affords simple and easy access from lantern top
- Die cast aluminium rotating one piece spigot flips inside body to offer top or side entry
- Lightweight aluminium construction for easy handling and reduced risk of injury
- Can be mounted on columns or brackets from 42mmØ to 60mmØ
- Optional mountings enable:-  
Side entry: 34/42/60mmØ  
Post top: 60/76mmØ



- Two easily accessible stainless steel screws and locknuts allow simple and secure fixing to column
- Lightweight with low wind resistance enables use with smaller section columns for improved aesthetics

- Smooth exterior avoids the accumulation of dust and dirt
- Enclosure secured to body by two strong stainless steel clips which also act as a retainer to ensure safe opening during installation and maintenance
- Hinged enclosure hinges down for 'hands free' access to lamp and optical section
- The one piece enclosure can be removed with one hand, in seconds without the need for tools
- Cabling designed to allow clear visibility of route, and ease access to separate components

Safety is an on going priority. Civic is no exception. At each and every stage of the luminaire's design and manufacture careful consideration has been given to the product features necessary to simplify handling operations, reduce time spent in the platform and minimise the risk of injury.

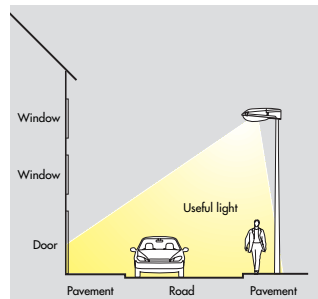
- Fully replaceable 'one piece' gear tray enables work to be carried out off site minimising time spent on platform
- Lamp access without the need to remove attachments
- Rotating one piece spigot - no requirement to handle separate parts
- Safe, comfortable and ergonomic working position
- Screws and locknuts secure lantern firmly to column/bracket to ensure that the lantern does not drift, vibrate or fall



Civic's ability to deliver uniform and controlled light exactly where it is needed results from a combination of factors.

The shallow or flat glass enclosure, precision engineered reflector and adjustable lampholder work together to deliver light where, when and how it is needed, avoiding 'sky glow' and 'nuisance' light.

- Sophisticated optical engine ensures high output uniform light is maintained throughout lantern lifetime
- Minimum lighting level is achieved without 'bright spots' to provide road users with maximum safety and visual comfort
- Optimum lighting distribution means lanterns can optimise spacings and uniformity, to reduce cost of installation and maintenance
- Vertical and horizontal lampholder adjustment enables selection of light distribution appropriate to the project
- Lampholder adjustment can be made on site for simple alignment of light distribution
- Choice of shallow bowl or toughened flat glass enclosure give a different light 'cut off' to match the light distribution with the application
- Carefully controlled light distribution ensures that the light only goes where it is wanted to prevent light pollution
- IP66 dust tight and jet proof protects reflector, lamp, enclosure and gear from external elements and pollution
- Choice of standard light distribution, or "residential distribution", for applications where a wider light spread is required



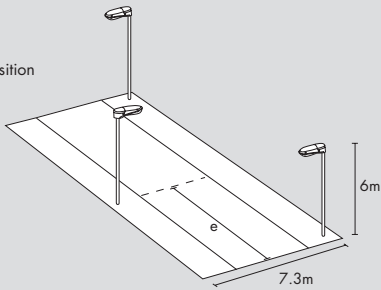


## Spacing optimisation projects

### Civic 1 - Staggered

**Lamp:** 57W TC-TEL  
Residential lamp position  
**Tilt:** 5°  
**Overhang:** 0.8m  
**Maintenance factor:** 0.89  
**R Table:** C2

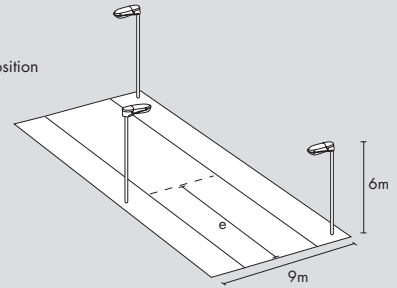
e	EH	E <sub>Min</sub>
27	6.31	2.52



### Civic 1 - Staggered

**Lamp:** 70W HPS-T(HO)  
Residential lamp position  
**Tilt:** 5°  
**Overhang:** 0m  
**Maintenance factor:** 0.89  
**R Table:** C2

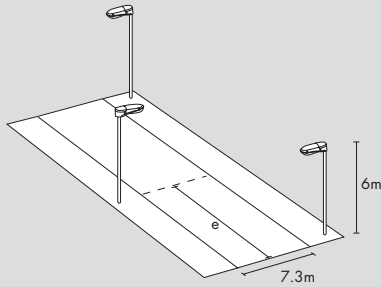
e	EH	E <sub>Min</sub>
37.0	8.01	2.51



### Civic 1 - Staggered

**Lamp:** 70W HPS-T(HO)  
**Tilt:** 5°  
**Overhang:** 0.8m  
**Maintenance factor:** 0.89  
**R Table:** C2

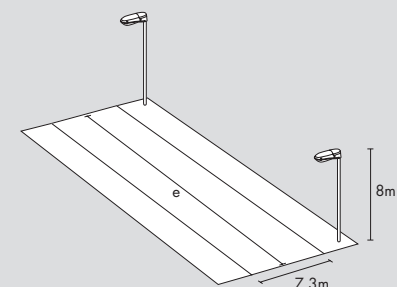
e	EH	E <sub>Min</sub>
38.25	8.73	2.51



### Civic 1 - Single sided

**Lamp:** 150W HPS-T(HO)  
**Tilt:** 5°  
**Overhang:** 0m  
**Maintenance factor:** 0.89  
**R Table:** C2

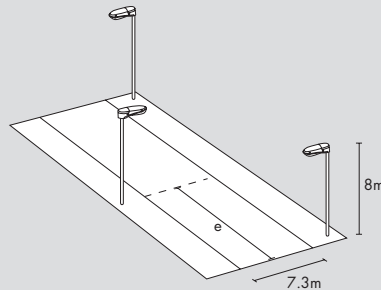
e	L	UO	UI	TI
34.5	1.5	0.42	0.77	10.03



### Civic 1 - Staggered

**Lamp:** 150W CDM-TT  
**Tilt:** 5°  
**Overhang:** 0m  
**Maintenance factor:** 0.89  
**R Table:** C2

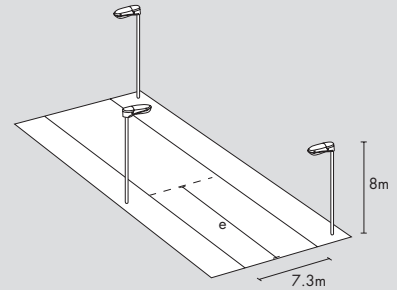
e	L	UO	UI	TI
22.75	1.5	0.45	0.80	7.5



### Civic 2 - Staggered

**Lamp:** 150W HPS-T(HO)  
**Tilt:** 5°  
**Overhang:** 0m  
**Maintenance factor:** 0.89  
**R Table:** C2

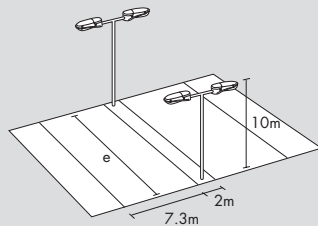
e	L	UO	UI	TI
24.25	1.99	0.62	0.70	14.0



### Civic 2 - Central

**Lamp:** 250W HPS-T(HO)  
**Tilt:** 5°  
**Overhang:** 0m  
**Maintenance factor:** 0.89  
**R Table:** C2

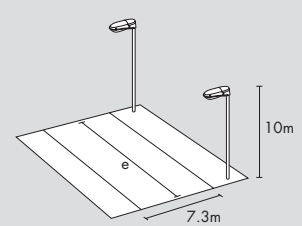
e	L	UO	UI	TI
47.0	2.73	0.44	0.70	11.8



### Civic 2 - Single Sided

**Lamp:** 250W HPIT+  
**Tilt:** 5°  
**Overhang:** 0m  
**Maintenance factor:** 0.89  
**R Table:** C2

e	L	UO	UI	TI
36.0	1.58	0.40	0.82	11.5



Civic is all about choice. Within one consistent and unobtrusive design, options are available from initial lantern size right the way through to energy management and the preferred colour finish. The aesthetic and performance requirements of road lighting applications can be easily accommodated within one 'best value' range.

### Choice of size



- 2 lantern sizes match visual appearance to given environment and increase scope of application.
- Shallow bowl or flat glass enclosure matches lighting distribution to needs of application, to fulfil the most demanding requirement
- Post top or side mounting provides installation flexibility and design consistency for both new and existing applications
- Sodium, metal halide, or compact fluorescent lamps from 42W to 250W to match light source to application.
- Any RAL colour available on request to meet specific design criteria
- NEMA socket or minicell options for automatic on/off switching
- Electronic ballasts for better mains supply control and energy savings
- Outdoor lighting controller (Luxmate OLC) provides intelligence to the luminaire enabling it to communicate with a central terminal for immediate reporting of failure to minimise down time and prevent time consuming visual checks
- Dimming function without control line as standard, using ZRMU6M power switch, reduces running costs and saves energy whilst providing minimum light for safety at times of low road usage.

**Choice of any RAL colour on request**



**Choice of enclosure**



**Choice of photocell**



**Choice of mounting**



# Civic 1

## Lamps

- ☛ 50W, 70W, 100W, 150W  
HPS-T high pressure sodium  
tubular, cap: E27/E40
- ☛ 70W, 100W, 150W  
CDM-TT metal halide  
tubular, cap: E27/E40
- ☛ 42W, 57W TC-TEL compact  
fluorescent,  
cap: GX24q-4/GX24q-5

## Materials/Finish

Enclosure: shallow shock resistant  
UV stabilised polycarbonate bowl  
or toughened flat glass.  
Body/gear canopy and spigot:  
recyclable die cast aluminium,  
matt grey powder coat painted  
finish (any other RAL colour finish  
on request)  
Toggles: stainless steel  
Reflector: anodised high grade  
aluminium  
Gear tray: technopolymer

## Installation/Mounting

Post top mounting: Ø60mm x  
90mm long spigot (dedicated  
items available to allow post top  
Ø76mm mounting)  
Tilted to 5°  
Side entry: Ø34mm to Ø60mm x  
100mm long spigot  
Tilted to 0°  
Fixed to shaft/bracket via  
toolfree rotating spigot and  
secured by 2 screws with  
locknuts.  
Access to lamp from below via  
hinged enclosure released by 2  
toggles. Replacement possible  
without using tools.  
Access to integral gear tray via  
removable gear cover released  
by 2 screws.  
Lantern delivered complete with  
integral gear (without lamp).  
Options for photocells, dimming  
ballasts, electronic ballasts and  
lighting management systems  
available.  
Cable gland for 8mm to 13mm  
diameter cable

## Standards

Designed and manufactured to  
comply with EN60598

☛ IP66 (optical and gear  
compartment) **CE**

IK08 (6 joules) shock resistant

Electrical class I.

Windage Scx measured lateral  
to lantern:

Flat Glass 0.046m<sup>2</sup>

Shallow Bowl 0.056m<sup>2</sup>

Note: Windage will vary  
depending on wind direction  
relative to lantern. Figures above  
are for lateral direction. Other  
directions may produce windage  
of Maximum:

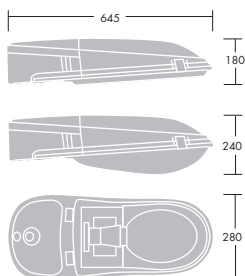
Flat Glass 0.056m<sup>2</sup>

Shallow Bowl 0.065m<sup>2</sup>

## Specification

To specify state:  
IP66 full aluminium streetlighting  
lantern. Fixing through one piece  
rotating spigot and 2 screws.  
For 42W to 150W lamps with  
options for photocell, dimming  
and electronic ballast.  
As Thorn Civic 1





## Ordering Guide Lamps to be ordered separately

Lamp type & rating	Plain Cat. No.	Weight (kg)	Nema Cat. No.	Weight (kg)	Minicell Cat. No.	Weight (kg)
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### Standard distribution

#### Shallow Bowl, Wire wound gear

HPS-T/CDM-TT 50W	CIV1SB50.4	6.6	CIV1SBP50.4	6.6	-	-
HPS-T/CDM-TT 70W	CIV1SB70.4	6.7	CIV1SBP70.4	6.7	-	-
HPS-T/CDM-TT 100W	CIV1SB100.4	6.9	CIV1SBP100.4	6.9	-	-
HPS-T/CDM-TT 150W	CIV1SB150.4	7.4	CIV1SBP150.4	7.4	-	-

#### Flat Glass, Wire wound gear

HPS-T/CDM-TT 50W	CIV1FG50.4	6.9	CIV1FGP50.4	7.0	-	-
HPS-T/CDM-TT 70W	CIV1FG70.4	7.0	CIV1FGP70.4	7.1	-	-
HPS-T/CDM-TT 100W	CIV1FG100.4	6.3	CIV1FGP100.4	7.3	-	-
HPS-T/CDM-TT 150W	CIV1FG150.4	7.8	CIV1FGP150.4	7.8	-	-

#### Shallow Bowl, Electronic gear

HPS-T/CDM-TT 70W	CIV1SBZ70.4	4.9	-	-	CIV1SBZC70.4	4.9
HPS-T/CDM-TT 100W	CIV1SBZ100.4	5.1	-	-	CIV1SBZC100.4	5.1
HPS-T/CDM-TT 150W	CIV1SBZ150.4	5.2	-	-	CIV1SBZC150.4	5.2
TC-TEL 42W	CIV1SBZ42	4.7	-	-	CIV1SBZC42	4.7
TC-TEL 57W	CIV1SBZ57	4.8	-	-	CIV1SBZC57	4.8

#### Flat Glass, Electronic gear

HPS-T/CDM-TT 70W	CIV1FGZ70.4	5.3	-	-	CIV1FGZC70.4	5.3
HPS-T/CDM-TT 100W	CIV1FGZ100.4	5.4	-	-	CIV1FGZC100.4	5.4
HPS-T/CDM-TT 150W	CIV1FGZ150.4	5.6	-	-	CIV1FGZC150.4	5.6
TC-TEL 42W	CIV1FGZ42	5.2	-	-	CIV1FGZC42	5.2
TC-TEL 57W	CIV1FGZ57	5.3	-	-	CIV1FGZC57	5.3



#### Anti-Vandal type

#### Shallow Bowl, Wire wound gear

HPS-T/CDM-TT 50W	CIVAV1SB50.4	6.6	CIVAV1SBP50.4	6.6	-	-
HPS-T/CDM-TT 70W	CIVAV1SB70.4	6.7	CIVAV1SBP70.4	6.7	-	-

#### Shallow Bowl, Electronic gear

HPS-T/CDM-TT 70W	CIVAV1SBZ70.4	4.9	-	-	CIVAV1SBZC70.4	4.9
TC-TEL 42W	CIVAV1SBZ42	4.7	-	-	CIVAV1SBZC42	4.7
TC-TEL 57W	CIVAV1SBZ57	4.8	-	-	CIVAV1SBZC57	4.8

### Residential distribution

#### Shallow Bowl, Wire wound gear

HPS-T/CDM-TT 50W	CIVR1SB50.4	6.6	CIVR1SBP50.4	6.6	-	-
HPS-T/CDM-TT 70W	CIVR1SB70.4	6.7	CIVR1SBP70.4	6.7	-	-

#### Shallow Bowl, Electronic gear

HPS-T/CDM-TT 70W	CIVR1SBZ70.4	4.9	-	-	CIVR1SBZC70.4	4.9
HPS-T/CDM-TT 100W	-	-	-	-	-	-
HPS-T/CDM-TT 150W	-	-	-	-	-	-
TC-TEL 42W	CIVR1SBZ42	4.7	-	-	CIVR1SBZC42	4.7
TC-TEL 57W	CIVR1SBZ57	4.8	-	-	CIVR1SBZC57	4.8



#### Anti-Vandal type

#### Shallow Bowl, Wire wound gear

HPS-T/CDM-TT 50W	CIVRAV1SB50.4	6.6	CIVRAV1SBP50.4	6.6	-	-
HPS-T/CDM-TT 70W	CIVRAV1SB70.4	6.7	CIVRAV1SBP70.4	6.7	-	-

#### Shallow Bowl, Electronic gear

HPS-T/CDM-TT 70W	CIVRAV1SBZ70.4	4.9	-	-	CIVRAV1SBZC70.4	4.9
TC-TEL 42W	CIVRAV1SBZ42	4.7	-	-	CIVRAV1SBZC42	4.7
TC-TEL 57W	CIVRAV1SBZ57	4.8	-	-	CIVRAV1SBZC57	4.8

#### Spares and accessories

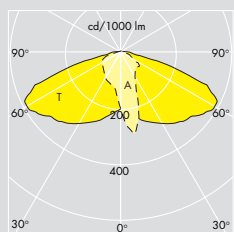
Spare shallow bowl assembly	CIV1SB
Spare flat glass assembly	CIV1FG
Spare gear compartment cover	CIV1RGC
76mm post top mounting accessory	CIV76PT

Mounting options:

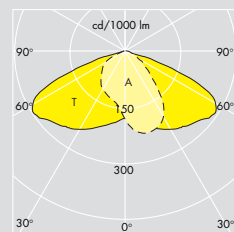
Above lanterns are suitable for 42/60mm side entry, and 60mm post top mounting

For 76mm post top mounting, order additionally accessory CIV76PT

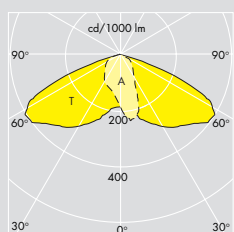
For 34mm side entry mounting use above Cat Nos and add suffix "/SE" eg. CIV1SBP70.4/SE



Civic Size 1  
Lamp: 150W CDM-TT  
Imax: 600 cd/klm



Civic Size 1  
Lamp: 150W HPS-T  
Imax: 440 cd/klm



Civic Size 1  
Lamp: 70W HPS-T  
Imax: 620 cd/klm

# Civic 2

## Lamps

- 150W, 250W HPS-T, tubular high pressure sodium, cap: E40
- 150W CDM-TT tubular compact ceramic metal halide, cap: E40
- 250W HIT clear tubular metal halide, cap: E40

## Materials/Finish

Enclosure: shallow shock resistant UV stabilised polycarbonate or toughened flat glass  
Body, gear canopy and spigot: recyclable die cast aluminium LM2, matt grey powder coat painted finish (any other RAL colour finish on request)  
Toggles: stainless steel  
Reflector: anodised high grade aluminium  
Gear tray: technopolymer

## Installation/Mounting

Post top mounting: Ø60mm x 90mm long spigot (Dedicated item available to allow post top Ø76mm mounting)  
Tilted to 5°  
Side entry: Ø42mm to Ø60mm x 100mm long spigot. (Accessory available to allow Ø34mm mounting)  
Tilted to 0°  
Fixed to shaft/bracket via toolfree rotating spigot and secured by 2 screws with locknuts.  
Access to lamp from below via hinged enclosure released by 2 toggles. Replacement possible without removing attachments  
Access to integral gear tray via removable gear cover released by 2 screws  
Lantern delivered complete with integral gear (without lamp).  
Options for photocells, dimming ballasts, electronic ballasts and lighting management systems available.  
Cable gland for 8mm to 13mm diameter cable

## Standards

Designed and manufactured to comply with EN60598

IP66 (optical and gear compartment) **CE**

IK08 (6 joules) shock resistant

Electrical class I.

Windage Scx measured lateral to lantern:

Flat Glass 0.073m<sup>2</sup>

Shallow Bowl 0.085m<sup>2</sup>

Note: Windage will vary depending on wind direction relative to lantern. Figures above are for lateral direction. Other directions may produce windage of Maximum:

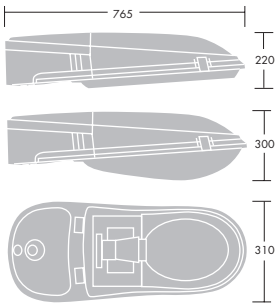
Flat Glass 0.094m<sup>2</sup>

Shallow Bowl 0.094m<sup>2</sup>

## Specification

To specify state:  
IP66 full aluminium streetlighting lantern. Fixing through one piece rotating spigot and 2 screws.  
For 150W to 250W lamps with options for photocell, dimming and electronic ballast.  
As Thorn Civic 2



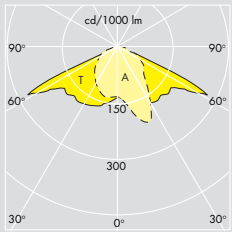


## Ordering Guide Lamps to be ordered separately

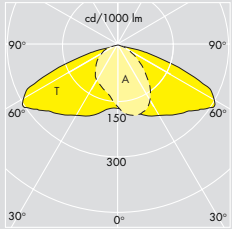
Lamp type & rating	Plain Cat. No.	Weight (kg)	Nema Cat. No.	Weight (kg)	Minicell Cat. No.	Weight (kg)
<b>Shallow bowl, wire wound gear</b>						
SON-T/CDM-TT 150W	CIV2SB150.4	9.0	CIV2SBP150.4	9.0		
SON-T/HPLT/HQLT 250W	CIV2SB250.4	10.6	CIV2SBP250.4	10.6		
<b>Flat Glass, wire wound gear</b>						
SON-T/CDM-TT 150W	CIV2FG150.4	9.6	CIV2FGP150.4	9.6		
SON-T/HPLT/HQLT 250W	CIV2FG250.4	11.2	CIV2FGP250.4	11.2		
<b>Shallow bowl, electronic gear</b>						
SON-T/CDM-TT 150W	CIV2SBZ150.4	7.7			CIV2SBZC150.4	7.7
<b>Flat Glass, wire electronic gear</b>						
SON-T/CDM-TT 150W	CIV2FGZ150.4	8.3			CIV2FGZC150.4	8.3
<b>Spares and accessories</b>						
Spare shallow bowl assembly	CIV2SB					
Spare flat glass assembly	CIV2 FG					
Spare gear compartment cover	CIV2RGC					
Post top mounting accessory for 76mm	CIV76PT					
Side entry mounting accessory for 34mm	CIV34SE					

Mounting options:

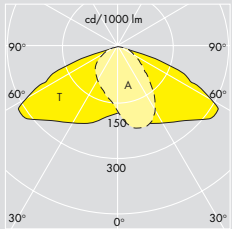
Above lanterns are suitable for 42/60mm side entry, and 60mm post top mounting  
 For 76mm post top mounting, order additionally accessory CIV76PT  
 For 34mm side entry mounting, order additionally accessory CIV34SE



Civic Size 2  
 Lamp: 150W CDM-TT  
 Imax: 560 cd/klm



Civic Size 2  
 Lamp: 250W HPS-T  
 Imax: 430 cd/klm



Civic Size 2  
 Lamp: 150W HPS-T  
 Imax: 460 cd/klm



# THORN

Lighting people and places

## Thorn Lighting Limited

### UK Sales desk -

#### Orders/Stock Enquiries

Tel: 08701 610 610  
Fax: 08701 610 611

### Regional Offices

#### & Lighting Design Centres

Tel: 08701 610 710  
Fax: 08701 610 711

#### South East - North of London (north)

#### South East - South of London (south)

#### Major Projects - Southern (centls)

3 King George Close, Eastern Avenue West,  
Romford, Essex RM7 7PP

#### Midlands (mids)

11 Galena Close, Tamworth,  
Staffordshire B77 4AS

#### South West (southw)

#### Major Projects - Western (bbcs)

16 Columbus Walk, Atlantic Wharf,  
Cardiff, Wales CF10 4TL

#### Major Projects - Northern (yorks)

Unit 5, Clarke Hall Farm, Aberford Road,  
Wakefield, West Yorkshire WF1 4AL

#### North East (northe)

Trading Estate, Spennymoor,  
Co. Durham DL16 7UR

#### North West (northw)

The Towers, Wilmslow Road, Didsbury,  
Manchester M20 2SE

#### Scotland (scot)

Hamilton Business Centre, Caird Park,  
Hamilton, Lanarkshire ML3 0QB

#### Northern Ireland (northi)

Prince Regent Road, Castlereagh,  
Belfast BT5 6QR

#### Outdoor Lighting (outdoor)

The Towers, Wilmslow Road, Didsbury,  
Manchester M20 2SE

Tel: 0161 445 2719  
Fax: 0161 448 8015

#### e-mail

Each of the above has 5 e-mail addresses  
that are in a standard format as follows:

(Using 'South West' as an example with its  
short code 'southw')

quotes.southw@thornlight.com  
orders.southw@thornlight.com  
stock.southw@thornlight.com  
queries.southw@thornlight.com  
enquiries.southw@thornlight.com

### Airfield Lighting

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Romford, Essex RM7 7PP  
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Fax: 01708 742322  
e-mail: airfield@thornlight.com  
Website: www.thornairfield.com

### International Sales

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Fax: 01708 741827  
e-mail: international.sales@thornlight.com

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Tel: (971) 4 2948938  
Fax: (971) 4 2948838  
e-mail: thorn@emirates.net.ae

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Tel: (971) 4 2940181  
Fax: (971) 4 2948838  
e-mail: tluae@emirates.net.ae

### Spare Parts

Tel: 0191 301 3131  
Fax: 0191 301 3038  
e-mail: spares@thornlight.com

### Technical Support

Tel: 0870 600 8111  
Fax: 0191 301 3907  
e-mail: technical@thornlight.com

### Brochureline Answering Service

Brochures on specific products/ranges  
Tel: 01708 776333  
Fax: 01708 776381  
e-mail: brochures@thornlight.com

### Other Offices in:

Australia, Austria, China, Czech Republic,  
Denmark, Estonia, Finland, France, Germany,  
Hong Kong, Hungary, India, Ireland, Italy,  
Latvia, Lithuania, New Zealand, Norway,  
Poland, Russia, Singapore and Sweden

[www.thornlighting.co.uk](http://www.thornlighting.co.uk)



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