

THORN

Celest

A new era in white light,
combining efficiency and style



Improving efficiency, output and the surrounding environment

Celest lanterns, with TC-L lamps, offer a number of distinctive benefits to the authorities which install them and the communities that enjoy them:

- High lumens/watt rating delivers cash savings on energy costs
- Excellent colour rendering ensures more comfort for users and a more pleasant and natural townscape
- Very competitive cost of ownership

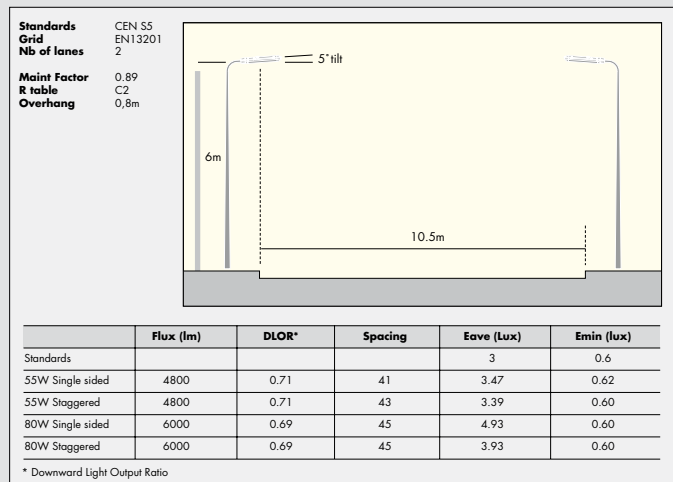
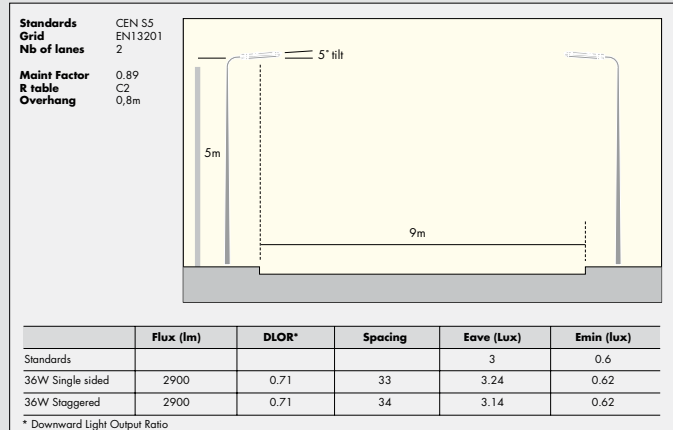
Celest leverages TC-L technology to deliver all its benefits in a modern lantern that addresses the demands of users and authorities for a viable alternative to SOX enclosures. In particular:

- Upward Light Output Ratio (ULOR) <1% to reduce light spillage and obtrusive light, improve efficiency and save energy
- Maximised spacing to minimise the quantity needed, making installation in new build or refurbishment projects more affordable, practical and energy efficient
- Slim aerodynamic shape reduces windage thus reducing column strength needed
- Available with Nema socket or miniature electronic photocell

Advanced engineering

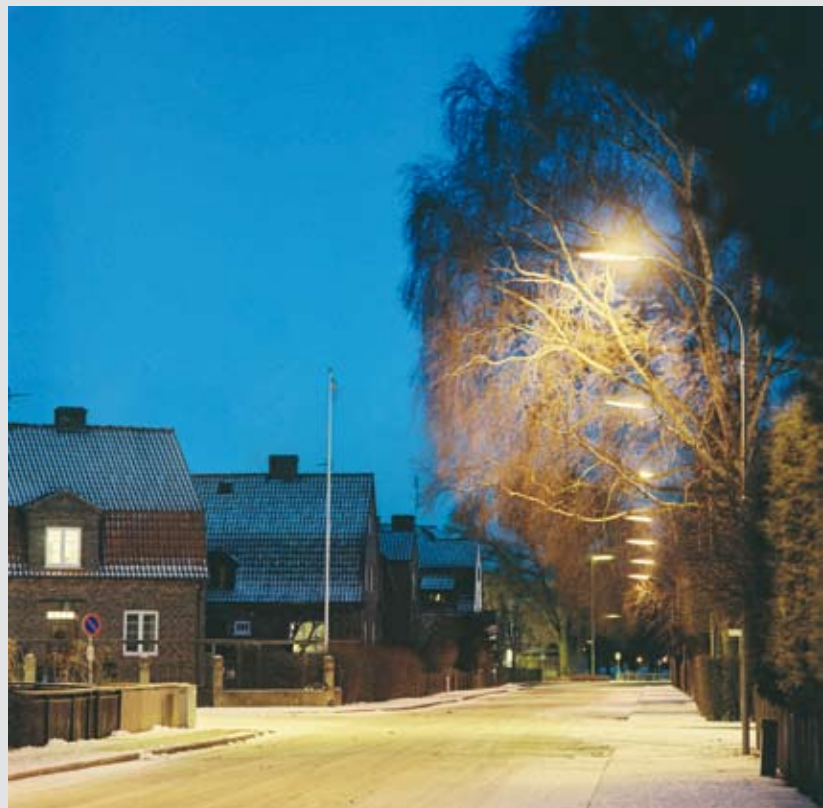
Celest is a first class lighting system with highly engineered optics. Among the unique features of its optical engine:

- Two half reflectors and optimal lamp positioning ensure maximum light emission from each limb of the lamp
- Double-curved reflector enables the beam to bypass the tube for efficient redirection
- Enclosure enables extensive light distribution while keeping ULOR below 1%
- Compact, efficient design supports self warm-up of the lamp. Between ambient temperatures from -7°C to +20°C, a minimum 90% of lumen output is available. No heating device or special outdoor lamps are required
- Celest is efficient as well as a good performer, with low CO₂ emissions. Complies with EuP, RoHS, WEEE.



Celest with Telea outdoor lighting controls

The combination of Celest with Telea gives authorities the benefits of an advanced control and monitoring system that promotes better lighting management, reduced costs, and fewer emissions. Implementation is flexible and straightforward. Depending on the requirement, systems can feature integrated Radio Frequency (RF) controllers (LSRF Switch RF controller or LDRF Stepless Dim RF controllers) to transmit data and monitor electronic control gear. Please contact your local Thorn office for more details.



A range for every project

Our unrivalled technology and innovation make Celest the recommended lantern for TC-L lamps. It represents a new era in white light deployment, combining efficiency and style with other practical benefits.

- Innovative, high performance optic optimises TC-L technology with low direct costs and high energy savings
- Designed with environmental respect and sustainability as priorities
- Available in outputs from 36W to 80W. Suitable for residential, minor road and car park applications
- Full IP66 protection of all components, for long-lasting performance
- Durability and vandal resistance through aluminium and stainless steel construction plus polycarbonate enclosure
- Supplied complete (less lamp) and ready to install, to avoid unnecessary handling and reduce gear selection errors
- Modern design, with compact, shallow contours, is engineered to last in any setting

Two quick release stainless steel clips recessed into the body

One piece neoprene gasket ensuring IP66

Integral rotating die-cast aluminium spigot, powder coated

Die-cast aluminium body, powder coated

Tool-free removable gear tray plate in galvanised steel

Specially designed enclosure in UV stabilised polycarbonate for high performances and longevity

Specially designed reflector in specular aluminium optimised for TC-L lamps



Mini Photocell



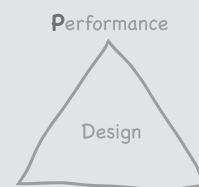
Nema Socket (photocell not supplied)



Installation and maintenance

Designed with contractors in mind, Celest is quick and easy to install and maintain, saving time while maximising safety

- The lightweight design makes Celest easy to carry and handle
- Simple, accessory-free mounting at post-top or side entry from 34 to 76mm
- Two screws and safety bolts firmly secure the lantern to the post/bracket arm, maintaining the initial position
- Two stainless steel clips allow fast, tool-free access to gear and connectors
- Enclosure opens along the length of the lantern, reducing exposure to wind and the risk of impact against the column (in post-top configuration)
- Gear is firmly secured to the body via two springs which provide extra resistance to vibrations
- Gear is secured to the body by two straps and can easily be removed without tools
- Plug and socket connection allows quick, tool-free maintenance
- Lamp settings are factory optimised and need no further adjustment



Comfort Efficiency

Performance:

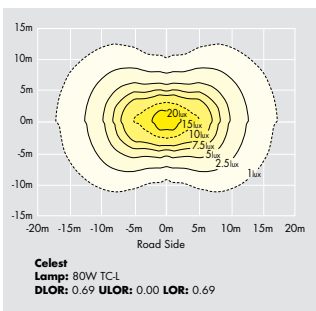
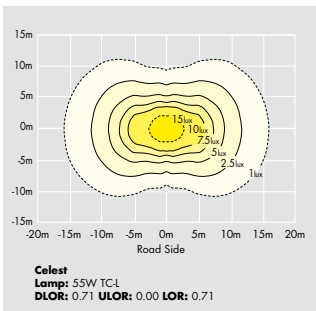
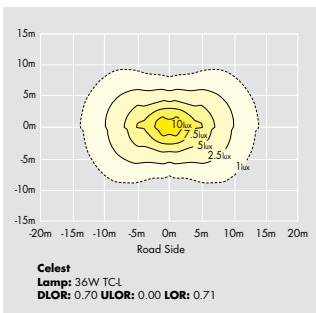
- Visual Effectiveness
- High Light output ratio
 - Good illuminance
 - Highly designed optics
 - Good uniformity
 - EN13201 settings
 - Norm compliance

Efficiency:

- Minimising the use of energy
- Light distribution control
 - less use of energy
 - Electronic control gear
 - less use of energy
 - Compact and sustainable
 - low cost of ownership

Comfort:

- People satisfaction and stimulation
- Optic and Enclosures design
 - Glare free light



Lamps

36-55-80W TC-L (FSD)
 Compact fluorescent. Cap: 2G11
 Regular indoor lamps to be used.

Materials/Finish

Body/Spigot/Spigot canopy:
 die-cast aluminium powder
 coated RAL9006
 Enclosure: UV stabilised
 polycarbonate
 Reflector: high purity anodised
 aluminium
 Gear plate: galvanised steel
 Enclosure gasket: neoprene
 Nema socket gasket: silicon

Installation/mounting

Integral tool-free rotating spigot
 secured by 2 screws with
 safety bolts
 Lateral side entry: Ø34/42/49/
 60mmx120mm long spigot.
 Tilted to 0°.
 Post-top mounting: Ø60/
 76x80mm long spigot.
 Tilted to 5°.
 Cable gland for 8mm to
 13mm cable.
 Tool-free access to lamp and gear
 after opening the enclosure via
 2 stainless steel clips.
 Gear is removed tool-free with
 retaining straps leaving hands
 free for wiring.
 All connections are plug
 and socket.
 Delivered ready to install,
 complete with factory fitted
 integral gear, all supplied in a
 single carton (less lamp).

Standards

Designed and manufactured to
 comply with EN 60598-2-3
 Class I electrical versions
 IK08 (lantern)
 IK10 (enclosure)
 IP66 CE

Specifications

To specify state:
 Full IP66 aluminium streetlighting
 lantern for TC-L 36 to 80W
 lamps. From 34mm side entry to
 76mm post-top mounting aided
 by integral rotating spigot.
 Tool-free maintenance of gear
 and lamp.
 With options for photocells and
 Telea outdoor lighting controls.
 As Thorn Celest.

Ordering guide. Lamps and Nema photocells must be ordered separately

Gear Type	Description	Ilcos code	Socket	Weight (Kg)	SAP Code		
					plain canopy	with nema socket	with minicell
HFF	CELEST 36W TC-L HFF	FSD	2G11	5.9	96250943	96250949	96250952
HFF	CELEST 55W TC-L HFF	FSD	2G11	5.9	96250944	96250950	96250953
HFF	CELEST 80W TC-L HFF	FSD	2G11	5.9	96250945	96250951	96250954
Telea	CELEST 36W/LDRF TC-L HFX	FSD	2G11	5.9	96252661*	n/a	n/a
Telea	CELEST 55W/LDRF TC-L HFX	FSD	2G11	5.9	96252662*	n/a	n/a
Telea	CELEST 80W/LDRF TC-L HFX	FSD	2G11	5.9	96252663*	n/a	n/a

* For all Telea versions it is necessary to also purchase the Telea control system
 LDRF - stepless dim radio frequency, HFX - high frequency dimmable, n/a - not available
 Telea versions scheduled for Autumn 2007 launch

THORN

Lighting people and places

Thorn Lighting Limited

UK

Silver Screens, Elstree Way, Borehamwood,
Hertfordshire, WD6 1FE

UK Sales desk -

Orders/Stock Enquiries

Tel: 08701 610 610

Fax: 08701 610 611

Project Enquiries:

Tel: 08701 610 710

Fax: 08701 610 711

Ireland

320 Harold's Cross Road, Dublin 6W

Tel: (353) 1 4922 877

Fax: (353) 1 4922 724

E-mail: enq.dublin@thornlight.com

Street & Road Lighting

Silver Screens, Elstree Way, Borehamwood,
Hertfordshire, WD6 1FE

Tel: 020 8732 9829

Fax: 020 8732 9825

E-mail: enquiries.outdoor@thornlight.com

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: 020 8732 9898

Fax: 020 8732 9899

E-mail: brochures@thornlight.com

www.thornlighting.co.uk

Thorn Lighting is constantly developing and improving its products. All descriptions, illustrations, drawings and specifications in this publication present only general particulars and shall not form part of any contract. The right is reserved to change specifications without prior notification or public announcement. All goods supplied by the company are supplied subject to the company's General Conditions of Sale, a copy of which is available on request. All measurements are in millimetres and weights in kilograms unless otherwise stated.

Publication No: 408 (GB) Publication Date: 06/07



Member of The Lighting
Industry Federation



ISO 9001:2000
Reg: 2916/0
Manufacturing & Distribution