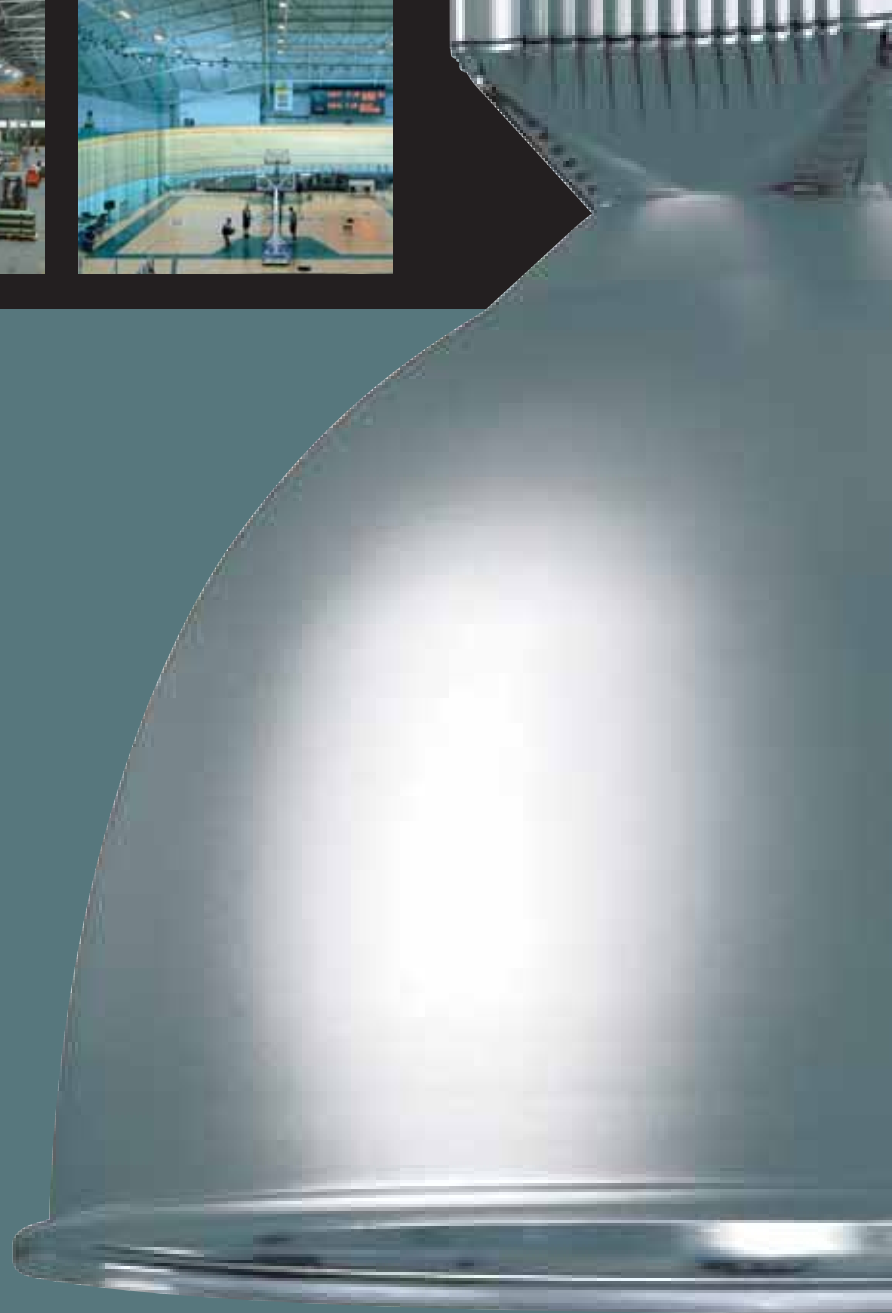


THORN

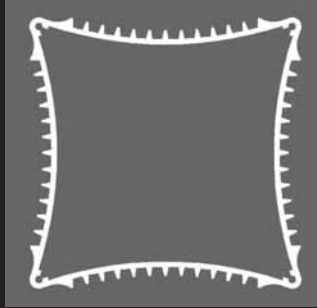
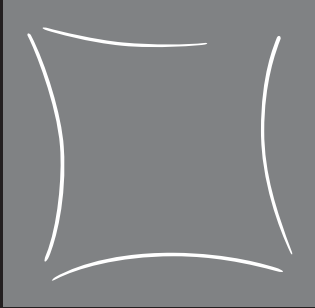
Concavia Range

Innovative and robust range
of high bay luminaires





Concavia



The innovative Concavia high bay luminaire family ensures choice and flexibility, offering three sizes including Small, Large and Extra Large, together with a wide range of lamp types and wattage combinations.

- The option of reflectors and decorative accessories allows the Concavia range to be adapted to create lighting solutions for a modern architectural appearance.
- A range of wire guards and covers improve safety and protection, while the option of a ring louvre provides essential glare control.
- Concavia has a robust construction and is manufactured using high quality materials.
- Suitable for high ambient temperatures.
- Option of IP23 or IP65 to guarantee functionality of the product in dusty or wet surroundings, whilst still maintaining safety and durability.

A key element of the range is that Concavia offers tool-free installation and maintenance. For ease of installation the product is equipped with a mains entry cable, therefore no access is required into the main body of the fitting. This ensures that the IP65 rating is maintained, providing a high level of safety, and saving time and money.

Concavia offers opportunities to create lighting solutions for a range of commercial and industrial applications such as retail, sports halls, factories and warehouses through to tough industrial environments.

For more information on applications please refer to page 5.





The main design focus for the Concavia family has been functionality, combined with a unique aesthetical appearance, outstanding performance, and exceptional technical aspects



Applications



Decorative

- Retail & shops
- Malls
- Showrooms
- Exhibition and event halls
- Airport atriums
- Railway stations

Design, aesthetics and a choice of lamps are a key consideration, where there is a need to create a modern touch, whilst still maintaining a relaxed environment.

When creating a particular ambience in a showroom or a retail application, Concavia S and L offers a unique appearance without compromising quality, safety or reliability.

Industry

- Factory and production areas
- Heavy industry
- Foundries
- Warehouses
- Dockyards
- Power stations

There are several critical factors which need to be taken into account to ensure a smooth and continuous operation within industrial applications. These include high quality materials, IP ratings, enhanced performance to limit maintenance requirements and suitability for environments with higher ambient temperatures.

Concavia L and XL are an ideal choice for these types of application, they are easy to install, provide excellent LOR and offer IP23 or IP65 for tougher industrial surroundings.

Sports

- Indoor sports facilities
- Skating rinks
- Recreational centres

For most sporting applications functionality and product performance are essential. Glare control and IP ratings need to ensure optimal performance even at low temperatures, such as skating rinks. Concavia L or XL are well equipped to provide the perfect solution for these applications.

Setting the Standard @ 35°C

The standard ambient temperature for testing luminaires according to EN 60598 is 25°C, and that is what most competitors' products achieve. However, very often, especially in industrial applications, the ambient temperature where high bay fittings are installed is much higher.

'Thorn has set its own standard' to suit more realistic conditions. All Concavia S and L versions with aluminium reflectors have been tested at an ambient temperature of 35°C. Naturally there are versions which can be used in even higher ambient temperatures but as long as the


temperature does not exceed 35°C, users do not have to consider which is the correct luminaire to use. Versions which can operate in higher ambient temperatures are detailed on page 13.

Key Features and Benefits

The Concavia family has been designed with functionality, safety and overall product performance in mind, offering many unique features and benefits



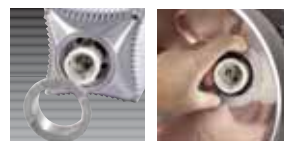
Safety

- Timed ignitors prevent defective lamps from flashing
- High safety level achieved through the use of timed ignitors
- Thermally protected ballasts eliminate the risk of over heating
- High IP rating versions ensure long maintenance cycles
- Limited surface temperatures 
- Auxiliary lamp options - if the power source is cut, once power is restored to the luminaire it immediately provides minimum lux level. Lamp is 150W jacketed tungsten halogen, E27 cap.



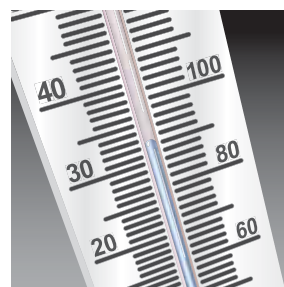
Consistent tool-free installation and assembly

- Option of quick fix brackets for any suspension method
- Quick fix bracket simply clips on the main housing, there is no need for any tools
- Reflector design with unique locking device
- No tools required to make electrical connection to luminaire, due to pre-installed 1.5m mains entry cable
- Tool-free installation. Easy to install wire guard and glass cover accessories.



Ambient Temperature

- Core Concavia range has been tested to an ambient temperature of 35°C, with several dedicated versions operating at higher ambient temperatures, for further information see page 13
- Guaranteed 'start-up' at temperatures down to -30°C
- Aluminium housing with cooling-fins improves heat flow





Innovation

- IP65 versions equipped with a GORE™ membrane vent
- Allows air pressure equalisation, preventing the ingress of air and moisture around seals, thus protecting electronic components
- Moisture vapour permeable to help aid reduction in condensation
- Assists in maintaining performances levels



Lamps and gear

- Wide range of lamps including innovative lamp solutions, such as induction lamps and high wattage 1000W lamps
- Induction lamps (QL) provide extensive lamp life and 'fit and forget' concept – minimum operating lifetime of 60,000 hours. They are ideal for applications where maintenance is difficult or costly e.g. where access is restricted
- 1000W lamps allow less luminaires to be used in very high mounting applications or where uniformity is less important
- Possibility to operate certain metal halide lamps with sodium gear which results in higher lumen output

For more information on lamp and gear combinations please refer to page 15



Material and design

- Innovative and striking aesthetic appearance to suit design sensitive applications
- Choice of three sizes to suit a variety of applications
- Use of high quality aluminium materials
- Robust, thermally optimised construction
- Range of aesthetic reflectors and accessories for creating the perfect lighting solution



Concavia S

A range of versatile and compact reflector fittings offering high performance and unique aesthetical appearance for use in many commercial applications



- Suitable for a wide range of lamp types and wattages
- Option of aluminium, plastic and glass reflectors offering direct/indirect distribution, each with individual aesthetical appearance
- Puristic and innovative design suits modern building architecture
- High quality cast aluminium housing ensures functionality and durability
- Tested at an ambient temperature of 35°C
- Pre-installed with 1.5m (3 x 1mm²) mains cable for easy electrical connection and installation
- A range of suspension options to suit various applications
- Glass covers and wire guards available for improved safety and protection
- Tool-free installation and handling



Lamps

- 42-57W TC-TEL (FSM) Compact Fluorescent Cap: GX24q
- 85W LMG-lhf (FSI) Induction lamp
- 60-250W QT (HSG) Halogen Lamp Cap: E27
- 70-150W HIE (ME) Metal Halide Lamp Cap: E27
- 70W HIPAR (MR) Metal Halide Lamp Cap: E27
- 70-150W HIT (MT) Metal Halide Lamp Cap: G12



Materials/Finish

Gearbox: extruded and die cast aluminium, silver anodised painted finish
Reflectors: high-purity sandblasted aluminium, prismatic polycarbonate, acrylic or glass
Reflector covers: prismatic or toughened glass
Suspension brackets: stainless steel

Installation/Mounting

Suitable for single point suspension on wire, chain, catenary suspension or twin-wire unit including ceiling rose. All luminaires are supplied with a pre-installed 1.5m (3 x 1mm²) grey cable for easy tool-free installation. Cover needed for all unprotected HIE and HIT lamps.

Standards

Designed and manufactured to comply with EN 60598
Class 1 Electrical
2 Nm (wire guard)
6 Nm (glass cover)
IP23  

¹ In preparation

Specification

To specify state: High bay reflector luminaire for 42-57W TC-TEL compact fluorescent, 85W LMG-lhf induction, 60-250W QT halogen, 70-150W HIE metal halide, 70W HIPAR metal halide, 70-150W HIT metal halide lamps with tool-free installation, pre-installed 1.5m (3 x 1mm²) mains cable, IP23 aluminium housing in silver, anodised finish, sandblasted aluminium, prismatic polycarbonate, acrylic or glass reflector, stainless steel suspension brackets, tested at an ambient temperature of 35°C. As Thorn Concavia S

Ordering guides

Dimensions

Photometric Data

Concavia S



Aluminium reflector



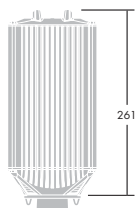
Prismatic refractor and prismatic cover



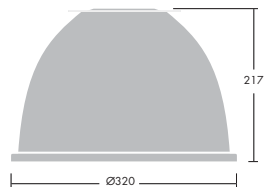
Glass refractor



Glass refractor and decorative attachment (reflector arms)



Housing



Concavia S RAL

Ordering Guide. Supplied complete with lamp, except QT halogen version. For complete fitting please order housing, reflector, attachments and suspension kit individually.

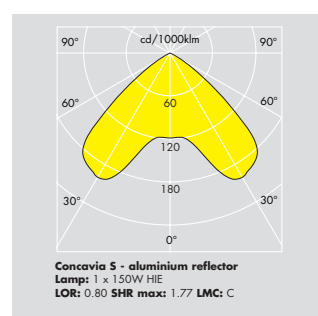
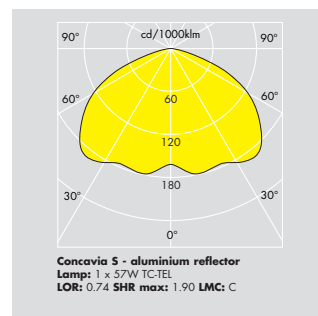
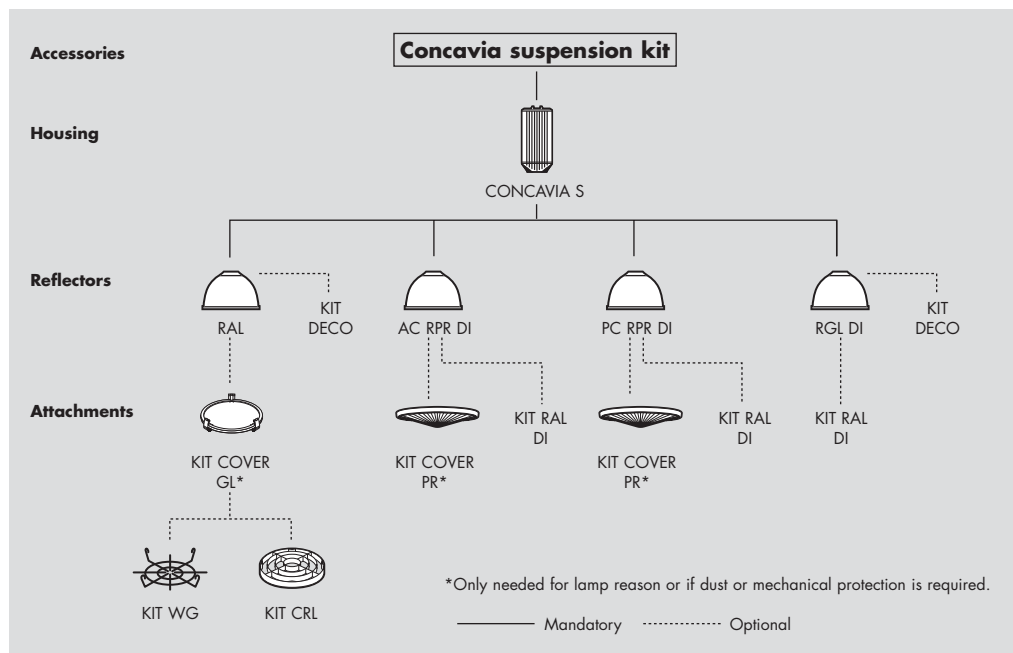
Description	Ilcos Code	Socket	Wt (Kg)	SAP Code
Housing				
CONCAVIA S 1X60-250W QT/A E27 NL	HSG	E27	1.7	96218692
CONCAVIA S 1X42W TC-TEL HF LI840	FSM	GX24q	1.9	96218687
CONCAVIA S 1X42W TC-TEL HFD LI840	FSM	GX24q	2.0	96218688
CONCAVIA S 1X57W TC-TEL HF LI840	FSM	GX24q	1.9	96218689
CONCAVIA S 1X57W TC-TEL HFD LI840	FSM	GX24q	2.0	96218690
CONCAVIA S 1X85W QL LI	FSI		3.0	96218691
CONCAVIA S 1X70W HIE/HIPAR LI HIE	ME/MR	E27	3.8	96218693
CONCAVIA S 1X70W HIE/HIPAR LI HIPAR	ME/MR	E27	3.8	96218694
CONCAVIA S 1X150W HIE LI	ME/MR	E27	4.5	96218695
CONCAVIA S 1X70W HIT LI	MT	G12	3.5	96218696
CONCAVIA S 1X70W HIT HF LI	MT	G12	2.2	96218697
CONCAVIA S 1X150W HIT LI	MT	G12	4.4	96218698
CONCAVIA S 1X150W HIT HF LI	MT	G12	2.7	96218699

HF - High frequency, HFD - High frequency dimmable, LI - Lamp included, NL - Lamp not included

Description	Wt (Kg)	SAP Code
Reflectors		
CONCAVIA S RAL ALUMINIUM REFLECTOR	0.5	96218701
CONCAVIA S AC RPR DI ACRYLIC PRISMATIC REFRACTOR, DIRECT/INDIRECT	1.0	96218702
CONCAVIA S PC RPR DI POLYCARBONATE PRISMATIC REFRACTOR, DIRECT/INDIRECT	1.0	96228969
CONCAVIA S RGL DI GLASS PRISMATIC REFRACTOR, DIRECT/INDIRECT	4.5	96218704

Description	Wt (Kg)	SAP Code
Attachments		
CONCAVIA S KIT RAL DI ALUMINIUM REFLECTOR INSERT FOR DIRECT/INDIRECT REFLECTORS	0.15	96229608
CONCAVIA KIT DECO DECORATIVE ATTACHMENT (REFLECTOR ARMS)	0.7	96218706
CONCAVIA S KIT COVER GL GLASS COVER, KIT	0.8	96218707
CONCAVIA S KIT COVER PR PRISMATIC COVER, KIT	0.35	96218708
CONCAVIA S KIT WG WIRE GUARD, KIT	0.10	96218709
CONCAVIA S KIT CRL CIRCULAR RING LOUVRE, KIT	0.25	96218710

Suspension kits available, refer to page 14 for details.



Ordering guides

Dimensions

Photometric Data

Concavia L



Wide reflector



Wide reflector with glass cover



Narrow reflector



Narrow reflector with glass cover



Prismatic refractor



Prismatic refractor with prismatic cover



Glass refractor

Ordering Guide. Supplied complete with lamp. For complete fitting please order housing, reflector, attachments and suspension kit individually.

Description	Ilcos Code	Socket	Wt (Kg)	SAP Code
IP23 Housing				
CONCAVIA L 1X165W LMG-LFH IP23 LI	FSI		6.9	96218711
CONCAVIA L 1X250W HIE IP23 LI	ME	E40	7.6	96218712
CONCAVIA L 1X250W HIE/HSE IP23 LI HSE	SE	E40	7.6	96218716
CONCAVIA L 1X250W HIE/HSE IP23 LI HIE	ME	E40	7.6	96218717
CONCAVIA L 1X250W HME IP23 LI	QE	E40	7.6	96218724
CONCAVIA L 1X400W HIE IP23 LI	ME	E40	9.0	96218714
CONCAVIA L 1X400W HIE/HSE IP23 LI HSE	SE	E40	9.0	96218720
CONCAVIA L 1X400W HIE/HSE IP23 LI HIE	ME	E40	9.0	96218721
CONCAVIA L 1X400W HME IP23 LI	QE	E40	9.0	96218726

IP23 Housing with Auxiliary Lamp				
CONCAVIA L 1X250W HIE AUX IP23 LI	ME	E40	7.9	96218713
CONCAVIA L 1X250W HSE AUX IP23 LI HSE	SE	E40	7.9	96218718
CONCAVIA L 1X250W HSE AUX IP23 LI HIE	SE	E40	7.9	96218719
CONCAVIA L 1X250W HME AUX IP23 LI	QE	E40	7.9	96218725
CONCAVIA L 1X400W HIE AUX IP23 LI	ME	E40	9.3	96218715
CONCAVIA L 1X400W HSE AUX IP23 LI HSE	SE	E40	9.3	96218722
CONCAVIA L 1X400W HSE AUX IP23 LI HIE	SE	E40	9.3	96218723
CONCAVIA L 1X400W HME AUX IP23 LI	QE	E40	9.3	96218727

IP65 Housing				
CONCAVIA L 1X165W LMG-LHF IP65 LI	FSI		6.9	96218730
CONCAVIA L 1X250W HIE IP65 LI	ME	E40	7.6	96218731
CONCAVIA L 1X250W HIE/HSE IP65 LI HSE	SE	E40	7.6	96218735
CONCAVIA L 1X250W HIE/HSE IP65 LI HIE	ME	E40	7.6	96218736
CONCAVIA L 1X250W HME IP65 LI	QE	E40	7.6	96218743
CONCAVIA L 1X400W HIE IP65 LI	ME	E40	9.0	96218733
CONCAVIA L 1X400W HIE/HSE IP65 LI HSE	SE	E40	9.0	96218739
CONCAVIA L 1X400W HIE/HSE IP65 LI HIE	ME	E40	9.0	96218740
CONCAVIA L 1X400W HME IP65 LI	QE	E40	9.0	96218745

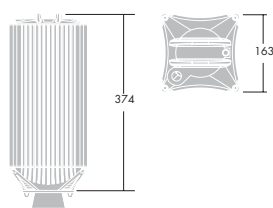
IP65 Housing with Auxiliary Lamp				
CONCAVIA L 1X250W HIE AUX IP65 LI	ME	E40	7.9	96218732
CONCAVIA L 1X250W HSE AUX IP65 LI HSE	SE	E40	7.9	96218737
CONCAVIA L 1X250W HSE AUX IP65 LI HIE	SE	E40	7.9	96218738
CONCAVIA L 1X250W HME AUX IP65 LI	QE	E40	7.9	96218744
CONCAVIA L 1X400W HIE AUX IP65 LI	ME	E40	9.3	96218734
CONCAVIA L 1X400W HIE/HSE AUX IP65 LI HIE	SE	E40	9.3	96218742
CONCAVIA L 1X400W HSE AUX IP65 LI HSE	SE	E40	9.3	96218741
CONCAVIA L 1X400W HME AUX IP65 LI	QE	E40	9.3	96218746

LI - Lamp included

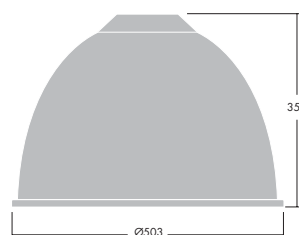
Description	Wt (Kg)	SAP Code
Reflectors		
CONCAVIA L RAL WD	ALUMINIUM REFLECTOR, WIDE DISTRIBUTION	1.0 96218749
CONCAVIA L RAL NW	ALUMINIUM REFLECTOR, NARROW DISTRIBUTION	1.0 96218750
CONCAVIA L AC RPR DI	ACRYLIC PRISMATIC REFRACTOR, DIRECT/INDIRECT	3.0 96218751
CONCAVIA L PC RPR DI	POLYCARBONATE PRISMATIC REFRACTOR, DIRECT/INDIRECT	3.0 96228968
CONCAVIA L RGL DI	GLASS PRISMATIC REFRACTOR, DIRECT/INDIRECT	9.5 96218752

Attachments		
CONCAVIA L KIT COVER GL IP65	GLASS COVER IP65, KIT	2.5 96218754
CONCAVIA L KIT COVER PR	PRISMATIC COVER, KIT	1.0 96218755
CONCAVIA L KIT WG	WIRE GUARD, KIT	0.15 96218756
CONCAVIA L KIT CRL	CIRCULAR RING LOUVRE, KIT	0.35 96218757

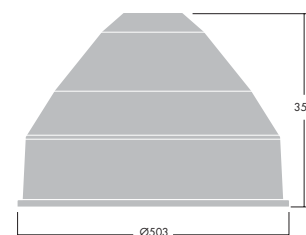
Suspension kits available, refer to page 14 for details.



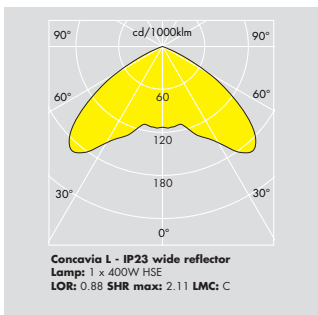
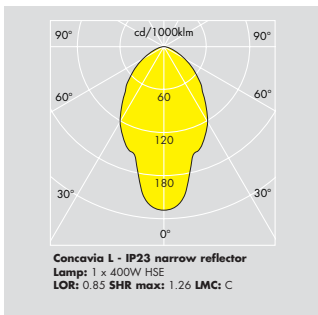
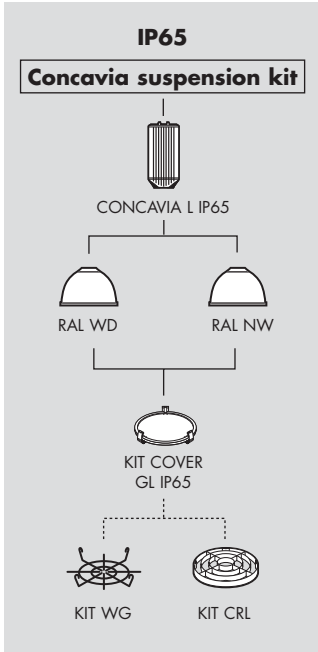
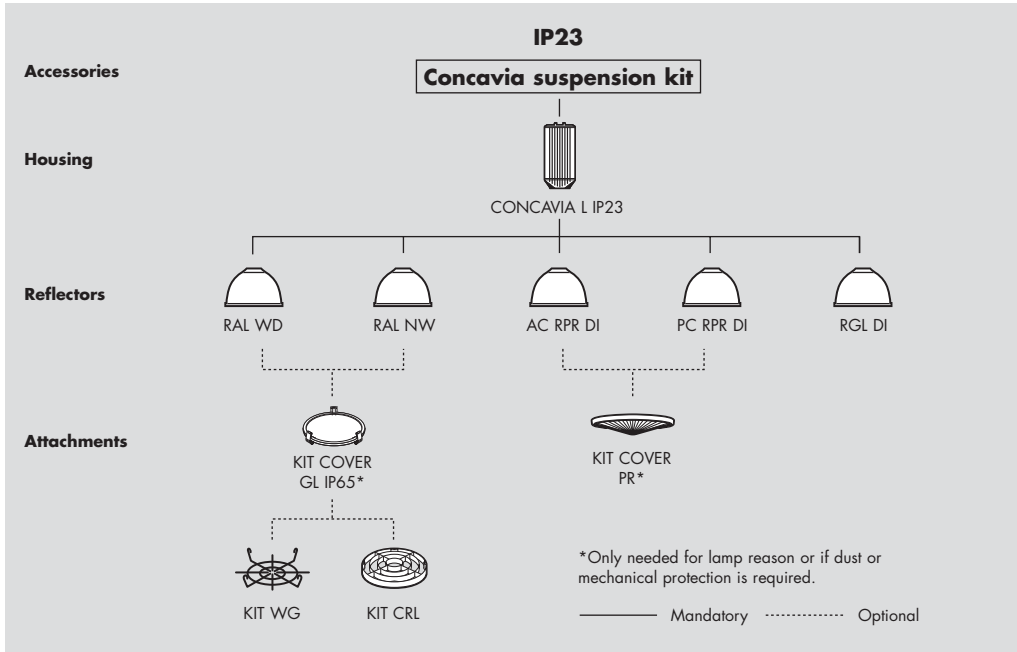
Housing



Concavia L RAL WD



Concavia L RAL NW



Ambient temperatures

Although the Concavia range has been tested at an ambient temperature of 35°C, there are some exceptions. Versions with QL Induction lamps can only be operated at 25°C, but please find in the table below the versions which can be used for higher ambient temperatures:

Description	*Max. Ambient Temperature °C
IP23	
CONCAVIA L 1x250W HIE IP23 LI	50
CONCAVIA L 1x250W HIE/HSE IP23 LI HSE	55
CONCAVIA L 1x250W HIE/HSE IP23 LI HIE	50
CONCAVIA L 1x250W HME IP23 LI	45
CONCAVIA L 1x400W HME IP23 LI	40
IP65	
CONCAVIA L 1x250W HIE IP65 LI	50
CONCAVIA L 1x250W HIE/HSE IP65 LI HSE	50
CONCAVIA L 1x250W HIE/HSE IP65 LI HIE	50
CONCAVIA L 1x250W HME IP65 LI	45

* to reach the stated ambient temperatures please ensure that the ballast tapping is set in line with the supply voltage

Ordering guides

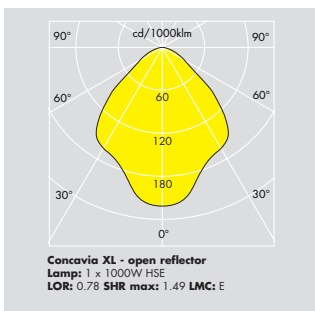
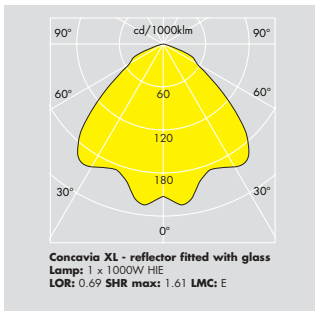
Dimensions

Photometric Data

Concavia XL



Concavia XL



Ordering Guide. Supplied complete with lamp.
For complete fitting please order housing, reflector, attachments and suspension kit individually.

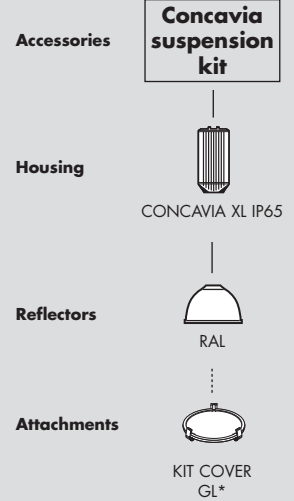
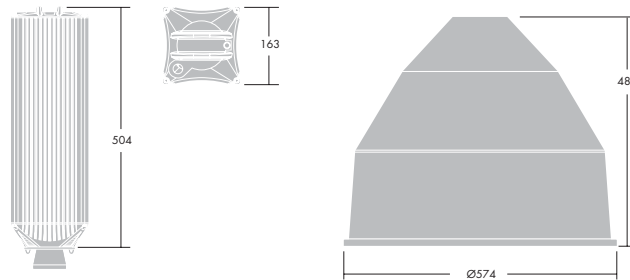
Description	Ilcos Code	Socket	Wt (Kg)	SAP Code
Housing IP65				
CONCAVIA XL 1x1000W HIE IP65 LI	ME	E40	15.0	96218758
CONCAVIA XL 1x1000W HSE IP65 LI	SE	E40	15.0	96218759
CONCAVIA XL 1x1000W HME IP65 LI	QE	E40	15.0	96218760

LI - Lamp included

Description	Wt (Kg)	SAP Code
Reflector		
CONCAVIA XL RAL ALUMINIUM REFLECTOR	1.5	96218761

Description	Wt (Kg)	SAP Code
CONCAVIA XL KIT COVER GL IP65 GLASS COVER IP65, KIT	3.3	96218762

Suspension kits available, refer to page 14 for details.



* Only needed for IP65 or HIE (lamp requirement)

Accessories for S, L & XL

The suspension brackets have to be ordered separately for individual fittings. This provides flexibility and allows a choice of suspension options for aesthetical or functional applications.

Description	SAP Code
CONCAVIA KIT FIX/CH	96218763
CONCAVIA KIT MSW1 2M	96218764
CONCAVIA KIT MSW1 4M	96218765
CONCAVIA KIT MSW2 2M	96218766
CONCAVIA KIT MSW2 4M	96218767
CONCAVIA KIT FIX MCA*	96218768
CONCAVIA KIT FIX/AV	96218770
CONCAVIA KIT FIX/SUP	96218771

*Not suitable for Concavia XL



Chain suspension



Catenary suspension kit



Single wire suspension

Planning and lamp info

Lighting Design Ready Reckoner

The Ready Reckoner provides a very quick and simple guide to know approximately how many fittings will be required to achieve a certain lux level (with a certain lamp eg. 57W TC-TEL - 500 lux).

To read these charts look along the horizontal axis showing the floor area m² until you reach the required floor space, then move to the curved line which refers to the lamp types and lux level. Now look horizontally following the line to the left, this will indicate the approximate number of luminaires required.

For example:

Concavia S

Floor area m² - 120

Lamp type and lux level - 57W TC-TEL - 500 lux

Approximate number of luminaires - 28

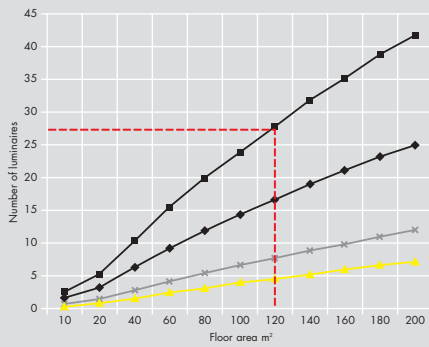
(Please see Concavia S diagram)

Concavia S

with reflector RAL

Mounting height = 4m

- ◆ 57W TC-TEL - 300 lux
- 57W TC-TEL - 500 lux
- × 150W HIE - 500 lux
- ▲ 150W HIE - 300 lux

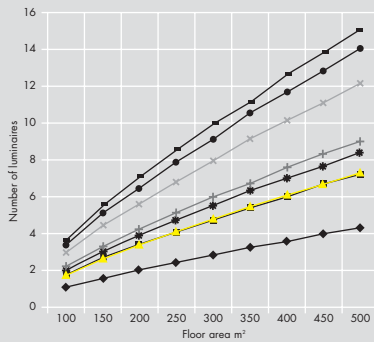


Concavia L

with reflector RAL WD

Mounting height = 6m

- ◆ 400W HSE/HIE-HSE 300 lux
- 400W HSE/HIE-HSE 500 lux
- ▲ 400W HSE/HIE-HIE 300 lux
- × 400W HSE/HIE-HIE 500 lux
- ◆ 400W HIE - 300 lux
- 400W HIE - 500 lux
- × 400W HME - 300 lux
- 400W HME - 500 lux

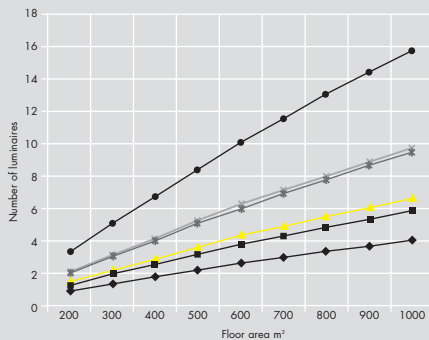


Concavia XL

with reflector RAL

Mounting height = 12m

- ◆ 1000W HSE - 300 lux
- ▲ 1000W HSE - 500 lux
- 1000W HIE - 300 lux
- × 1000W HIE - 500 lux
- ◆ 1000W HME - 300 lux
- 1000W HME - 500 lux



Lamps and Operation

The Concavia family offers a wide selection of different lamps. Concavia L and XL mainly focus on HID technology, which means metal halide, high pressure sodium and mercury lamps.

To make the right choice in terms of light sources can be easy, when knowing some simple basics about the different lamps:

- HIE (metal halide) are very efficient, offer very high lumen packages and good colour rendering. The main applications, from Industry to Retail, are nearly unlimited.
- HSE (high pressure sodium) lamps offer a very long lifetime and excellent efficiency. However they do not offer the colour rendering level of a HIE lamp and are mainly used in Industry.
- HME (high pressure mercury) are mainly used for simple industrial applications.

All HID lamps require control gear to operate, however elliptical metal halide(HIE) lamps show quite a special functionality – they can be 'run on' HIE or on HSE gear. This may have an impact on colour rendering and colour temperature, but the main result is a much higher lumen-output if operated on HSE gear, as shown in the table below with a 400W HIE lamp (reference: OSRAM HQI-E 400/D)

Concavia	Lamp and ballast	Luminous flux
1/400W HIE LI	HIE lamp operated on HIE ballast	26,000 lm
1/400W HIE/HSE LI HIE	HIE lamp operated on HSE ballast	30,000 lm



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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

Eastern & London Projects

Silver Screens, Elstree Way,
Borehamwood, Hertfordshire, WD6 1FE
Tel: 08701 610 710
Fax: 08701 610 711

Southern & Western Projects

16 Columbus Walk, Atlantic Wharf,
Cardiff, Wales, CF10 4TL
Tel: 08701 610 710
Fax: 08701 610 711

Northern Projects

The Towers, Wilmslow Road, Didsbury,
Manchester, M20 2SE
Tel: 08701 610 710
Fax: 08701 610 711

South East and South West Wholesale

Silver Screens, Elstree Way,
Borehamwood, Hertfordshire, WD6 1FE
Tel: 08701 610 710
Fax: 08701 610 711

Northern Wholesale

Trading Estate, Spennymoor,
Co. Durham, DL16 7UR
Tel: 08701 610 710
Fax: 08701 610 711

Midlands Wholesale

The Towers, Wilmslow Road, Didsbury,
Manchester, M20 2SE
Tel: 08701 610 710
Fax: 08701 610 711

Scotland

Hamilton Business Centre, Caird Park,
Hamilton, Lanarkshire, ML3 0QB
Tel: 08701 610 710
Fax: 08701 610 711

Northern Ireland

Building 3 Lesley Office Park,
393 Hollywood Road, Belfast, BT4 2LS
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Fax: 08701 610 711

Outdoor Lighting

The Towers, Wilmslow Road, Didsbury,
Manchester, M20 2SE
Tel: 0161 445 2719
Fax: 0161 448 8015
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Airfield Lighting

Silver Screens, Elstree Way,
Borehamwood, Hertfordshire, WD6 1FE
Tel: 01708 776289
Fax: 01708 742322
E-mail: airfield@thornlight.com
Website: www.thornairfield.com

Ireland

320 Harold's Cross Road, Dublin, 6W
Tel: (353) 1 4922 877
Fax: (353) 1 4922 724
E-mail: enq.dublin@thornlight.com

International Sales

Silver Screens, Elstree Way,
Borehamwood, Hertfordshire, WD6 1FE
Tel: 01708 776242
Fax: 01708 741827
E-mail: international.sales@thornlight.com

Thorn Lighting Ltd Dubai

Al Shoala Building, Office 301,
Block E, PO Box 1200, Deira, Dubai, UAE
Tel: (971) 4 2940181
Fax: (971) 4 2948838
E-mail: thluae@emirates.net.ae

Thorn Gulf LLC

Al Shoala Building, Office 301/2,
Block E, PO Box 1200, Deira, Dubai, UAE
Tel: (971) 4 2948938
Fax: (971) 4 2948838
E-mail: thornng@emirates.net.ae

Spare Parts

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

Technical Support

Tel: 0870 600 8111
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