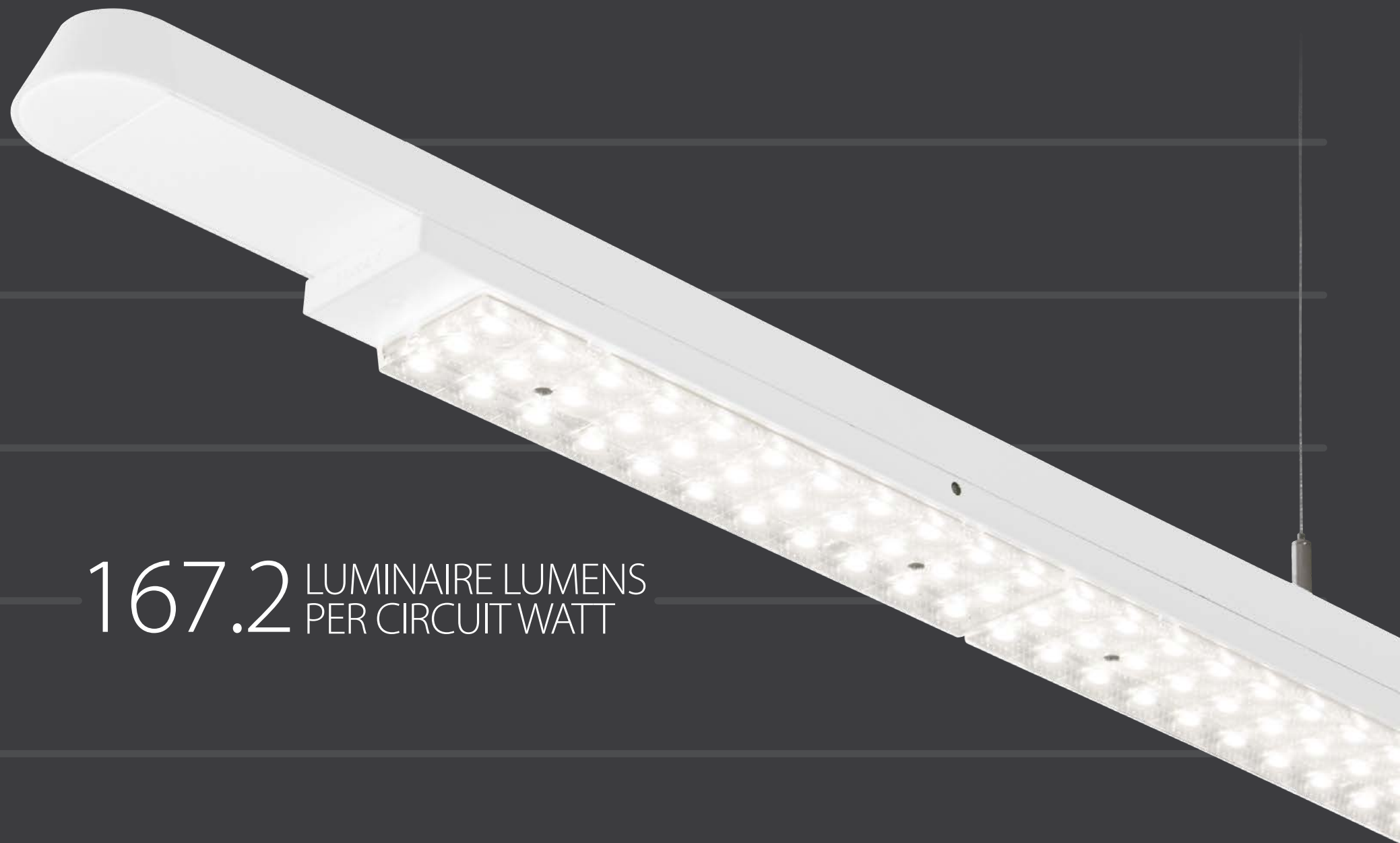

ZIPLINE

SLEEK, SIMPLE, SMART TRACK LIGHTING SOLUTION



Introduction to Zipline

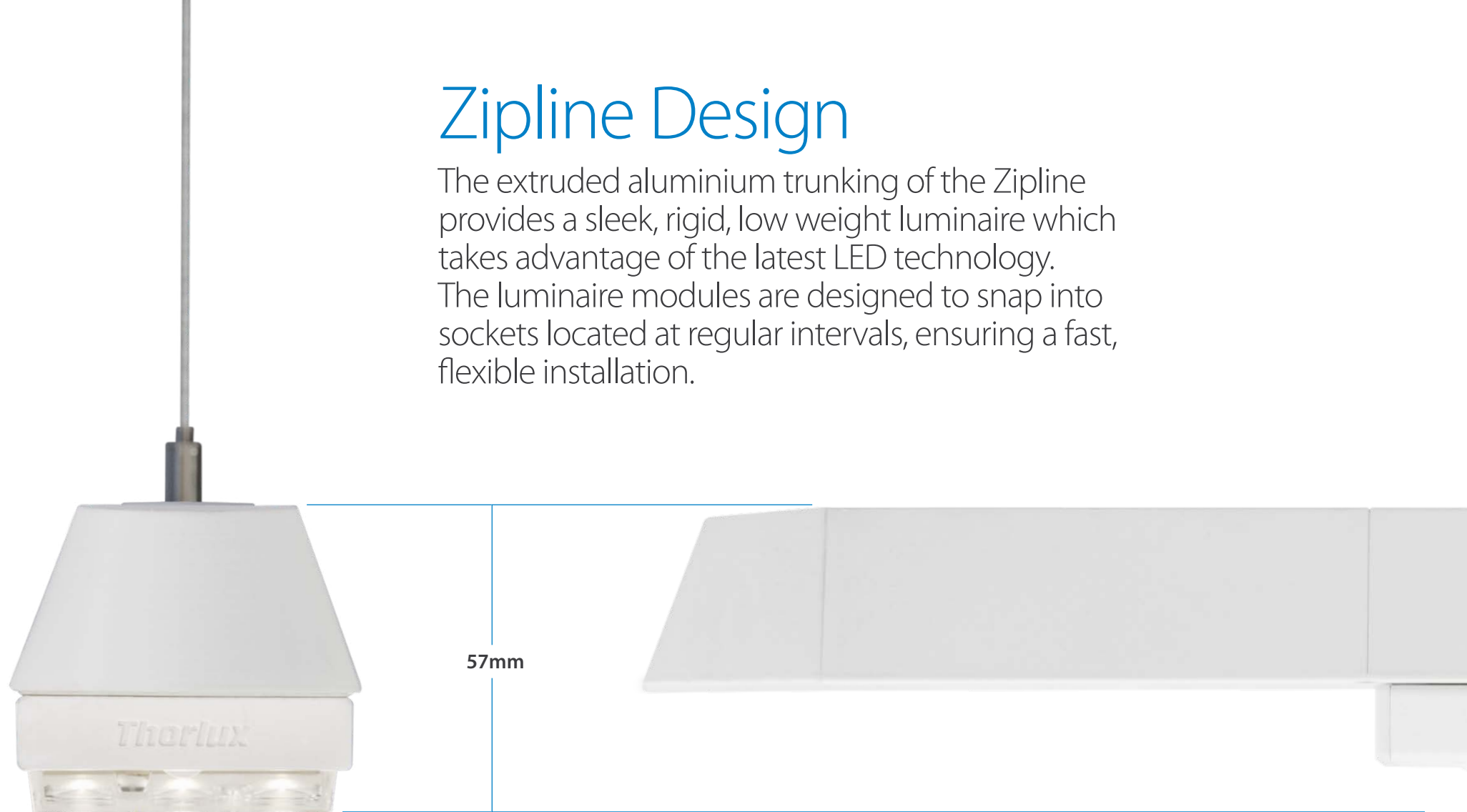
The Zipline is a self-contained pre-wired trunking and LED lighting system offering unparalleled flexibility in terms of lighting layout and scheme design. The Zipline combines architectural impact, longevity and supreme efficiency (167.2 LL/CW) providing the lighting designer with the perfect lighting solution for many building-wide applications. With five luminaire power options, broad, narrow and double asymmetric light distributions and a variety of accessories the Zipline is a truly versatile suspended or surface mounted lighting system.



167.2 LUMINAIRE LUMENS
PER CIRCUIT WATT

Zipline Design

The extruded aluminium trunking of the Zipline provides a sleek, rigid, low weight luminaire which takes advantage of the latest LED technology. The luminaire modules are designed to snap into sockets located at regular intervals, ensuring a fast, flexible installation.

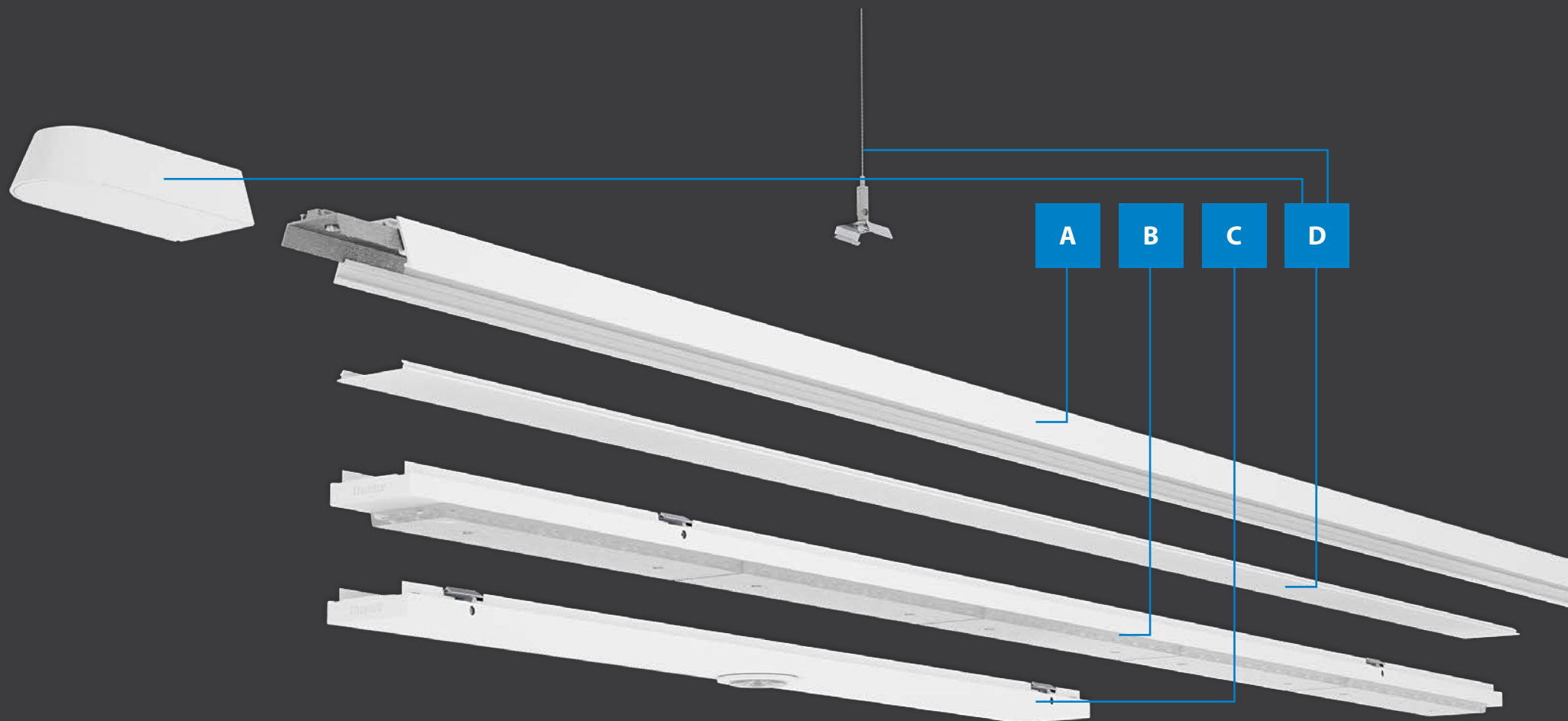


1:1 Scale



Zipline System

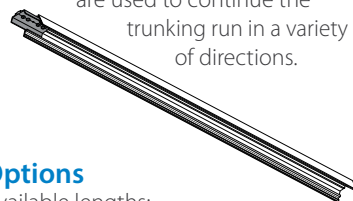
The Zipline system is made up of four main elements. An extruded aluminium trunking provides the backbone and contains wiring with sockets located at 750mm intervals for connecting a range of modules. The modules can be any combination of luminaire, emergency luminaire, spotlight and passive infra-red detector. Where modules are not required an extruded PVC lid is used to fill in blank spaces. Finally, a small number of finishing components complete a fast and simple installation.



A

TRUNKING

Pre-wired lengths up to 4.5m long are joined together to form the required run. The factory installed wiring looms (7-core 1.5mm² PVC as standard) are simply plugged together and provide electrical connection sockets at 750mm intervals. Luminaire modules may be installed continuously, or with either 750mm or 1500mm spaces between them. Elbow, tee and crossover joints are used to continue the trunking run in a variety of directions.



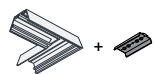
Options

Available lengths:

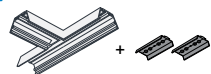


Maximum total distance in one run depends upon circuit design. See advice on **page 14**

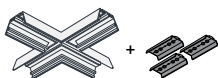
Elbow Joint



Tee Joint



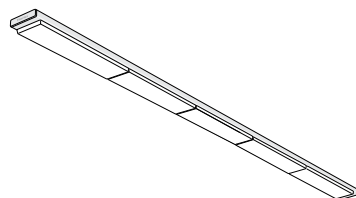
Crossover Joint



B

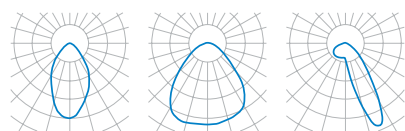
LUMINAIRES

All luminaire modules are based on a standard length of 1500mm. Options include narrow, broad and double asymmetric distributions, 5 output levels, conventionally switched and dimmable circuit types or with integral Smart controls.



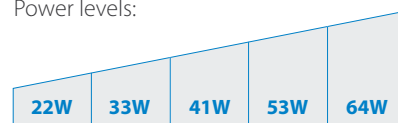
Options

Distributions:



Narrow Broad Double Asymmetric

Power levels:



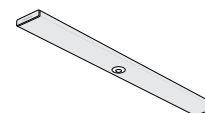
C

MODULE OPTIONS

Options include a PIR module for automatic control (if required when Smart luminaire modules are not used), emergency lighting modules, and spotlight modules. All modules are 750mm long.

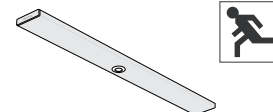
Lighting Controls

PIR Module



Emergency Lighting

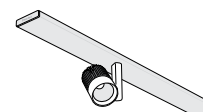
Scanlight AT Module (DALI) & SmartScan Options



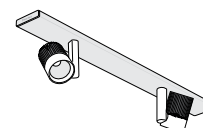
Area and corridor versions available

Display Lighting

Single Spotlight Module



Twin Spotlight Module

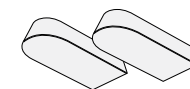


D

FINISHING COMPONENTS

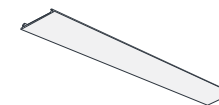
End Kit

1 kit required per row, includes live end (mains feed) and dead end



Snap-in Infill Lid

1500mm lengths



Wire Suspension Kit*



Surface Mounting Kit*



*see the mounting point spacing table on **page 22** for required quantities of Wire Suspension or Surface Mounting kits

For full technical details see **page 22**

Integrated Lighting Controls

For maximum energy savings

Option 1 Smart Luminaire Modules (1500mm)

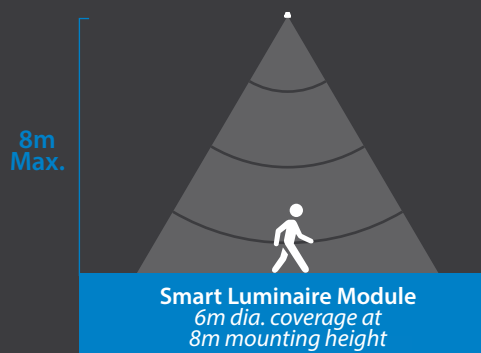
Smart

A discrete sensor integral to the luminaire monitors ambient light and presence, controlling output to the correct level and ensuring that the area is only illuminated when occupied.

Motionline

Individual Thorlux Smart luminaires are automatically linked, via the trunking wiring, into a linear group using 'Motionline'. Individual runs of trunking can be linked by connecting between live end connectors see **page 14**.

Movement Detection:

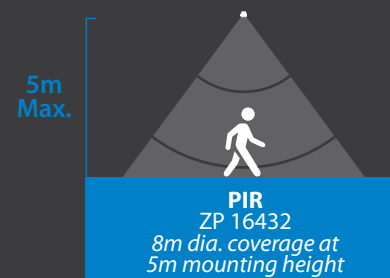


NOTE: Minimum 750mm space required between Smart luminaire modules

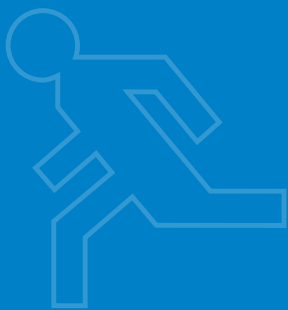
Option 2 PIR Module (750mm)

A cost effective lighting control solution, without the luxury features of a full Smart System, PIR modules can be selected and simply plugged in, to provide passive infra-red detection for each connected run. As many PIR modules as required for suitable detection coverage can be fitted and the entire run will be switched as a whole group.

Movement Detection:



For full details of the Thorlux Smart System including *movement detection* and *Motionline* see www.thorlux.com/smart



Emergency Lighting

Zipline offers the choice of either emergency versions of the luminaire or dedicated modules which utilise a reliable, unobtrusive Scanlight AT LED downlight. The superb optical performance of the **area** and **corridor** lens minimises the number of modules required.

Option 1 Emergency Version of Luminaire (1500mm)

Standard luminaire modules are available with Emergency, AutoTest and Scanlight AT options. Shown as EZP, TZP, or DZP in the ordering process

Option 2 Emergency LED Module (750mm)

- Area or corridor distributions
- Can be positioned between luminaire modules for best effect
- Superb photometric performance
- SmartScan option with integral Firefly
- Stand-alone AutoTest and full communication Scanlight AT compatible (DALI) option

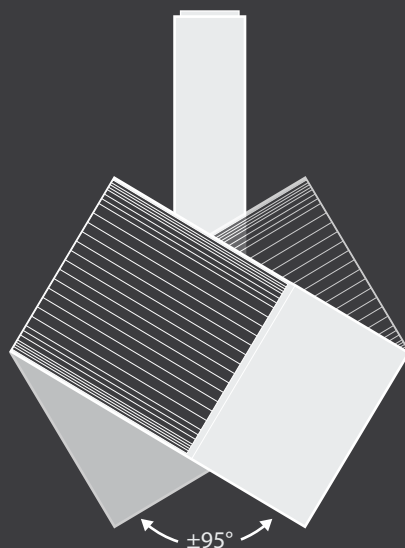
For full details of Thorlux Emergency Lighting Systems see www.thorlux.com/emergency-systems

Display Lighting

Adjustable single or twin LED spotlights ideal for reception and showroom areas.

Adjustable Spotlights

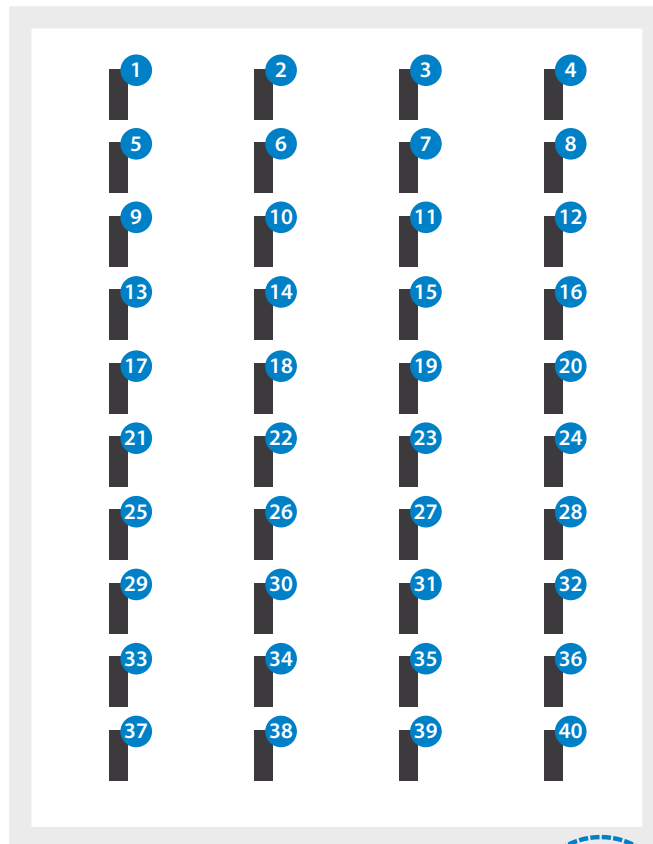
- One or two adjustable spotlights in one 750mm module
- Extruded aluminium heat sink finished in black for passive thermal management with no cooling fan
- Adjustable spotlight with $\pm 95^\circ$ tilt, 360° degree rotation
- 30° beam angle



Fast Installation

Installation of Zipline requires minimal wiring points compared to that of individual luminaires. Over the course of a project this will drastically reduce labour costs whilst adding future flexibility if changes are required.

Individual Luminaires

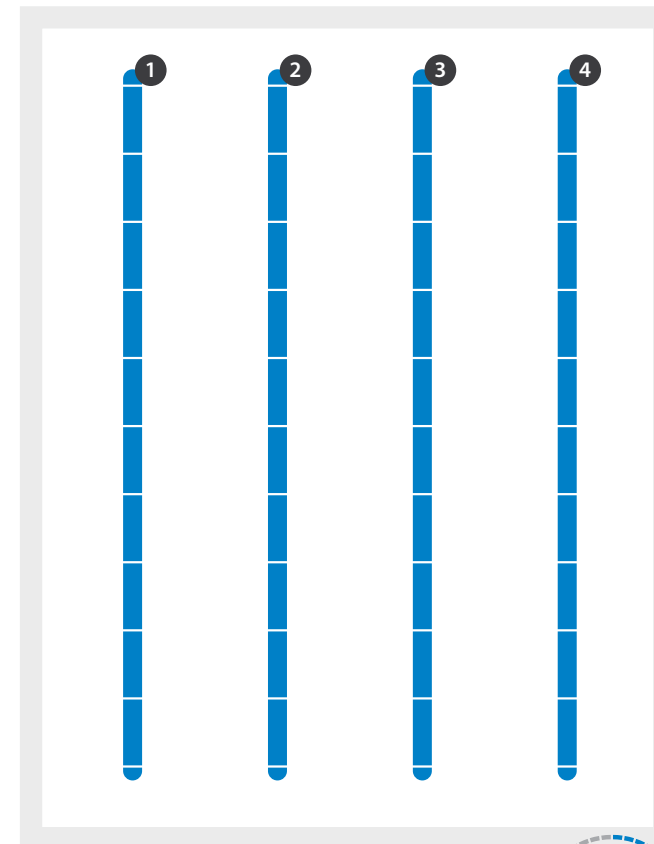


Luminaires: **40**

Wiring points

40

Zipline



Luminaires: **40**

Wiring points

4

Fast Installation

The Zipline system has been designed for speed of installation. Once the trunking lengths are secured in position the modules are simply offered up and plugged in.

DESIGN

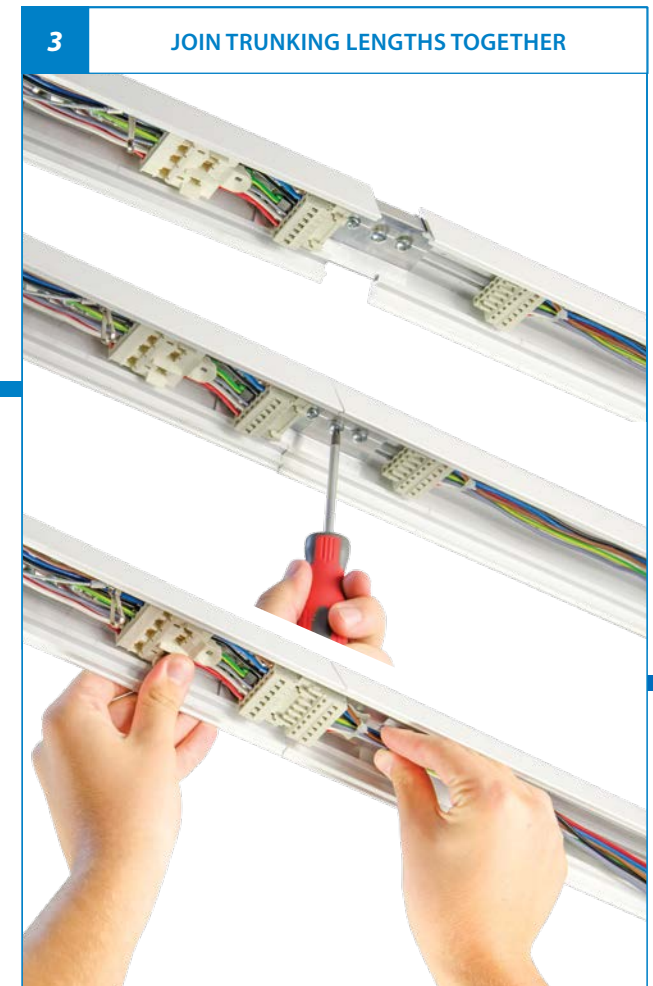
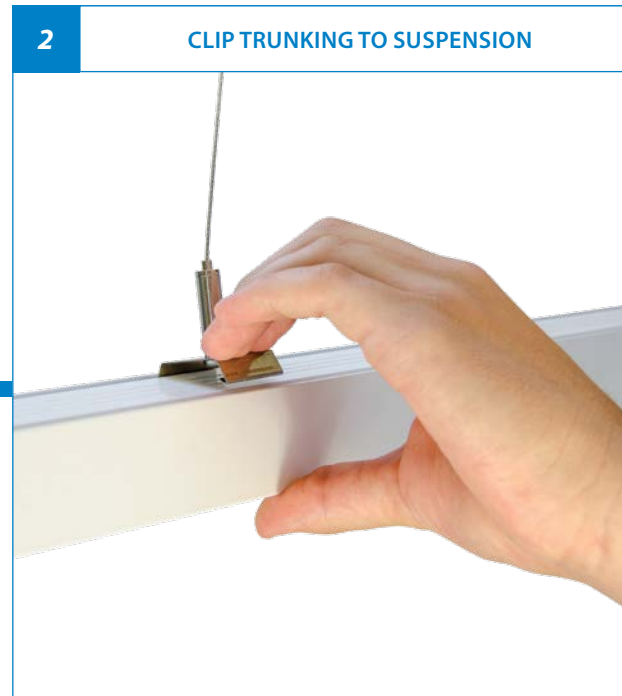
SYSTEM

OPTIONS

INSTALLATION

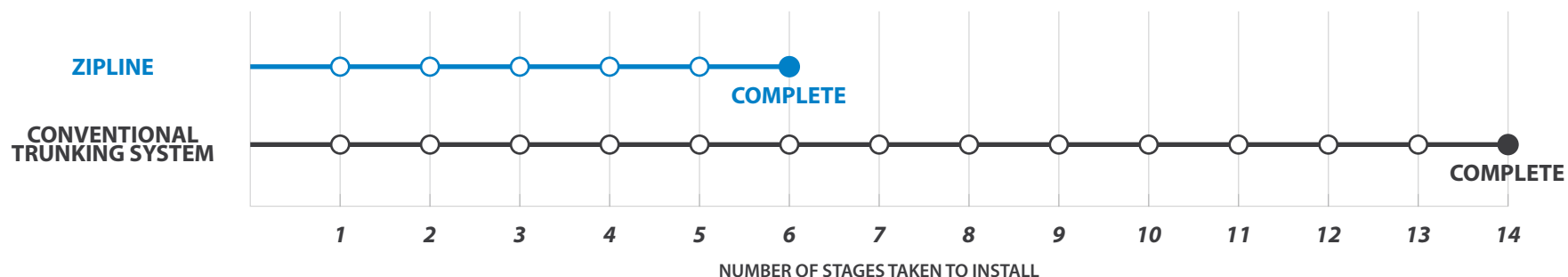
SOLUTIONS

ORDERING



* Maximum spacing of 2500mm between suspension fixings. Maximum weight at each suspension point assuming fully loaded assembled system = 5kg

When compared to conventional trunking systems the Zipline installation process is incredibly straightforward. The sequence below shows the minimal number of steps required to install the system, which is **half the amount** needed to install a conventional system.



4

FIX END KITS AND WIRE SUPPLY**



5

CLIP MODULES ONTO TRUNKING



6

FIT THE SNAP-IN INFILL LID



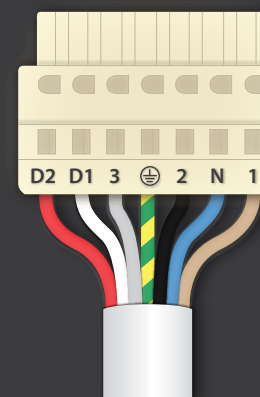
** For wiring details see [page 14](#)

Simple Wiring

The wiring loom provides connection sockets at 750mm intervals. When trunking sections are joined, the wiring looms are simply plugged together.

Live End Connector

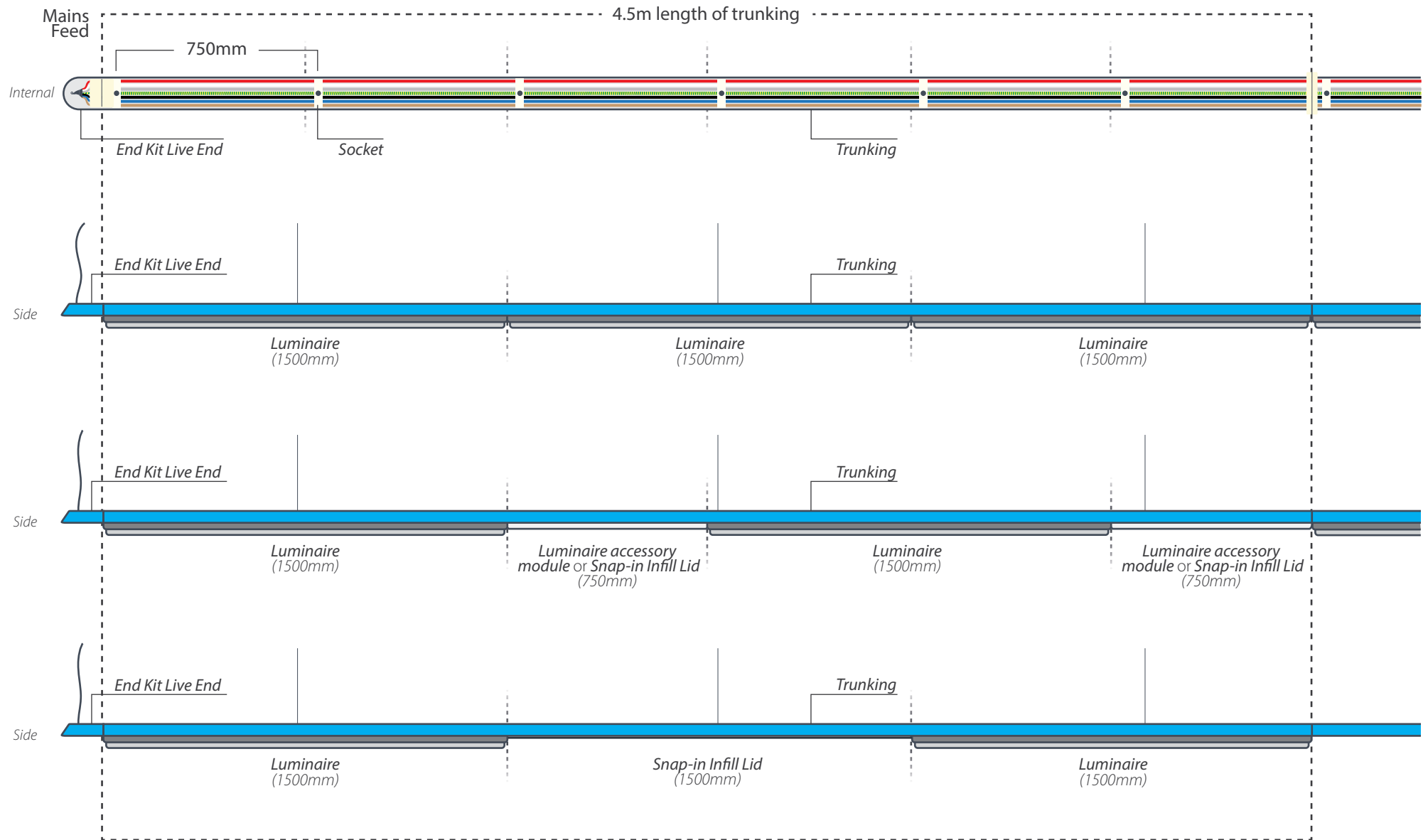
Up to 7 cores may be wired into the Live End connector, depending upon the project requirements*



	Function	Core
D2	Motionline or DALI	Red
D1	0V Common	White
3	Scanlight	Grey
⊕	Earth	Green & Yellow
2	Perm/EM	Black
N	Neutral	Blue
1	Live	Brown

* The 7 cables used within the Zipline trunking are 1.5mm² CSA H07V2 tri-rated PVC insulated 400V, 85°C rated. Voltage drop 29mV/A/m maximum current rating for the system and connectors is 8A. Maximum distance depends upon design parameters such as circuit fusing, earth loop impedance and local regulations. All components within the system will operate at a voltage range of 220V-240V +/- 10%. Each module section has an internally mounted, replaceable 3A fuse.

Wiring socket locations and module location examples



Versatile lighting solution

Zipline is an ideal lighting solution for many applications.

Over the next five pages there are examples of typical applications where the flexibility of the Zipline system allows the lighting layout to be customised to suit each setting.

RETAIL

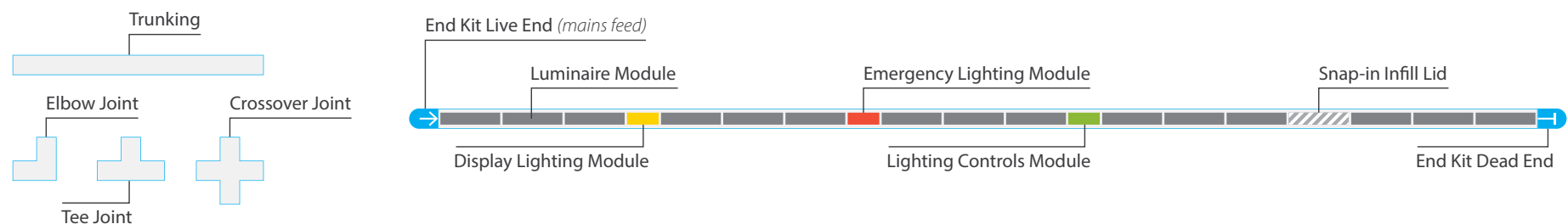


WAREHOUSE



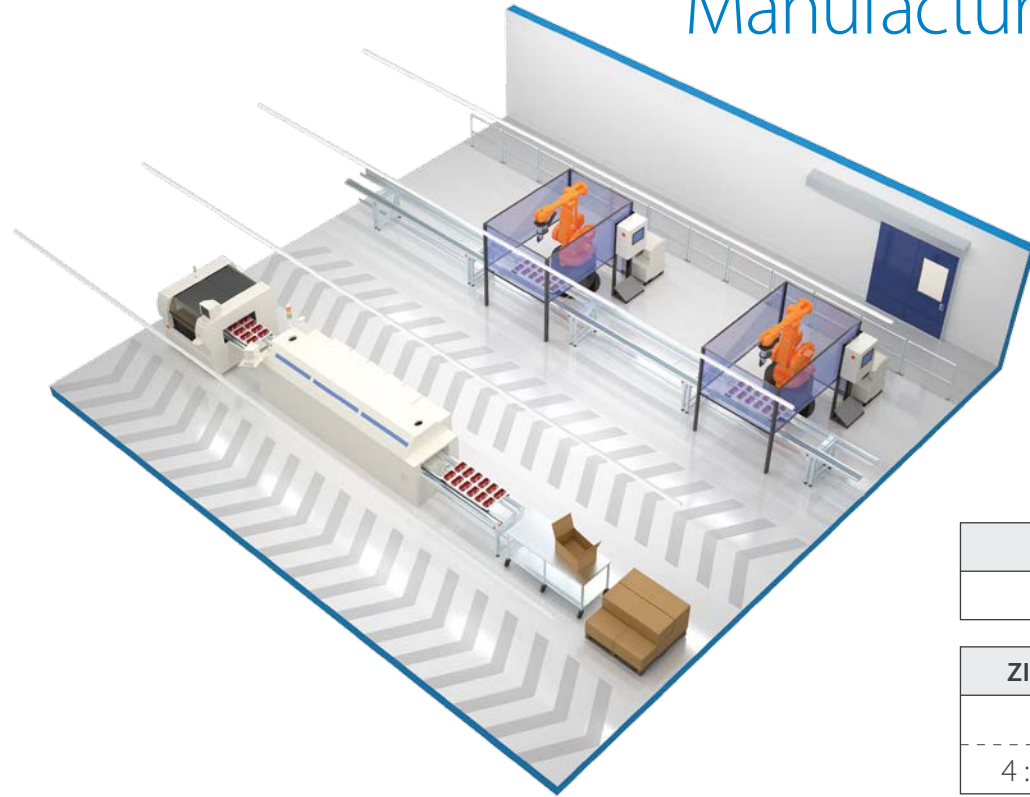
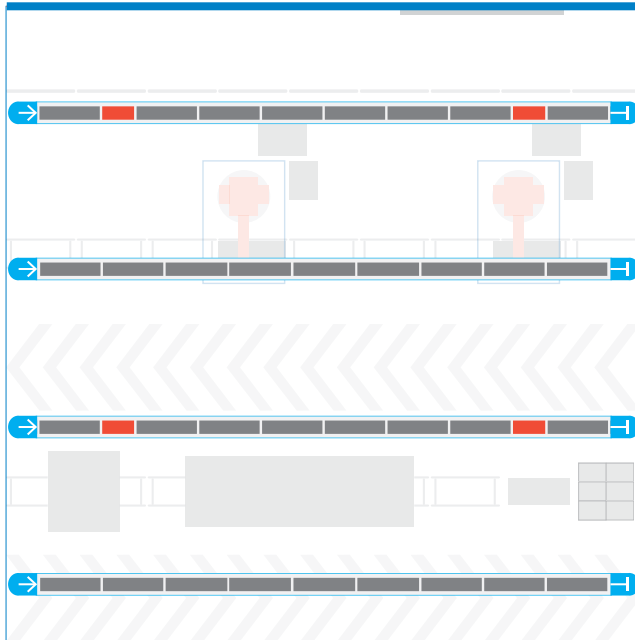
From decorative display lighting in retail used to highlight products, to high output narrow distribution for warehouses, the Zipline system is the lighting solution for virtually all situations.

Lighting solution key:



Lighting Solution

Manufacturing



AREA
14m x 14m
ZIPLINE SYSTEM
4 : Rows
4 : Wiring points

Key:

A	TRUNKING
●	54m of trunking required 12 x 4.5m lengths

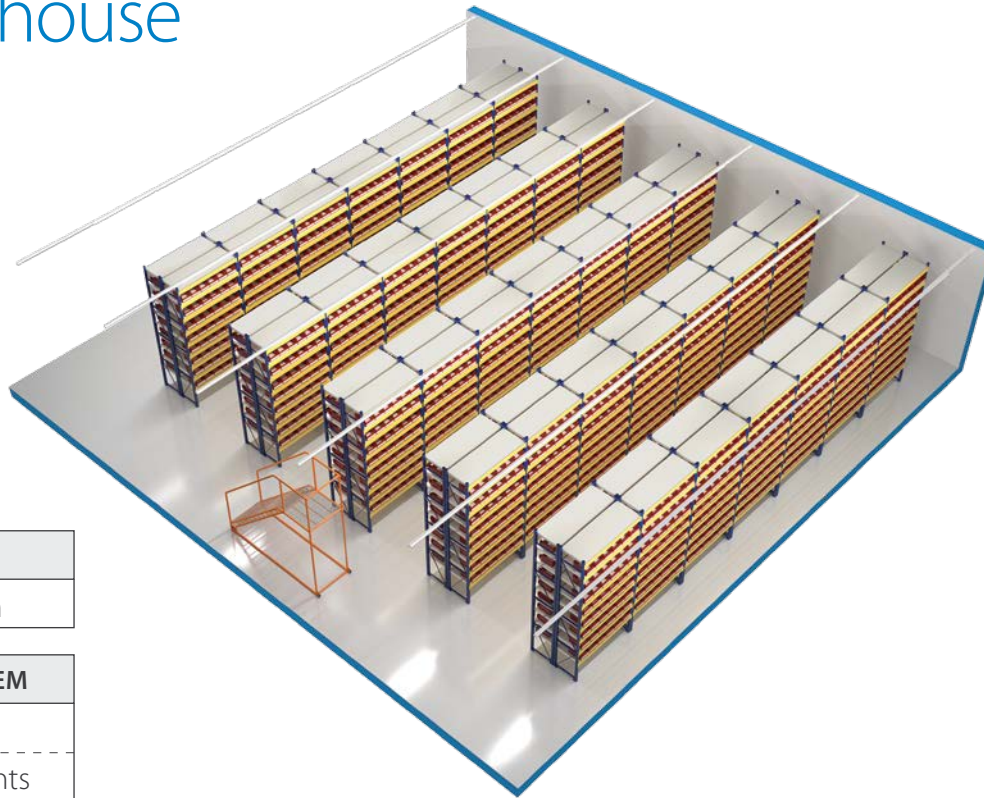
B	LUMINAIRES
●	34x Broad distribution luminaire modules

C	MODULE OPTIONS
●	4x Area distribution Scanlight AT modules

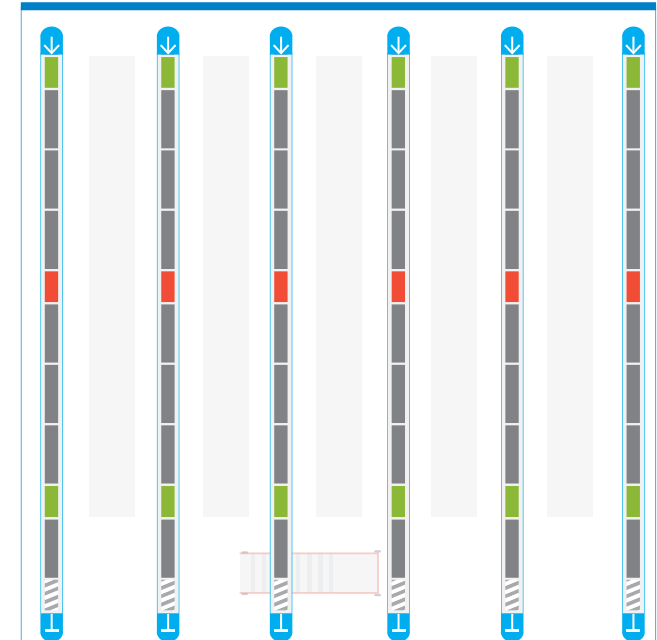
D	FINISHING COMPONENTS
●	4x Trunking End kits
+	24x Wire Suspension kits

Lighting Solution

Warehouse



AREA
14m x 14m
ZIPLINE SYSTEM
6 : Rows
6: Wiring points



Key:

A	TRUNKING
81m	of trunking required 18 x 4.5m lengths

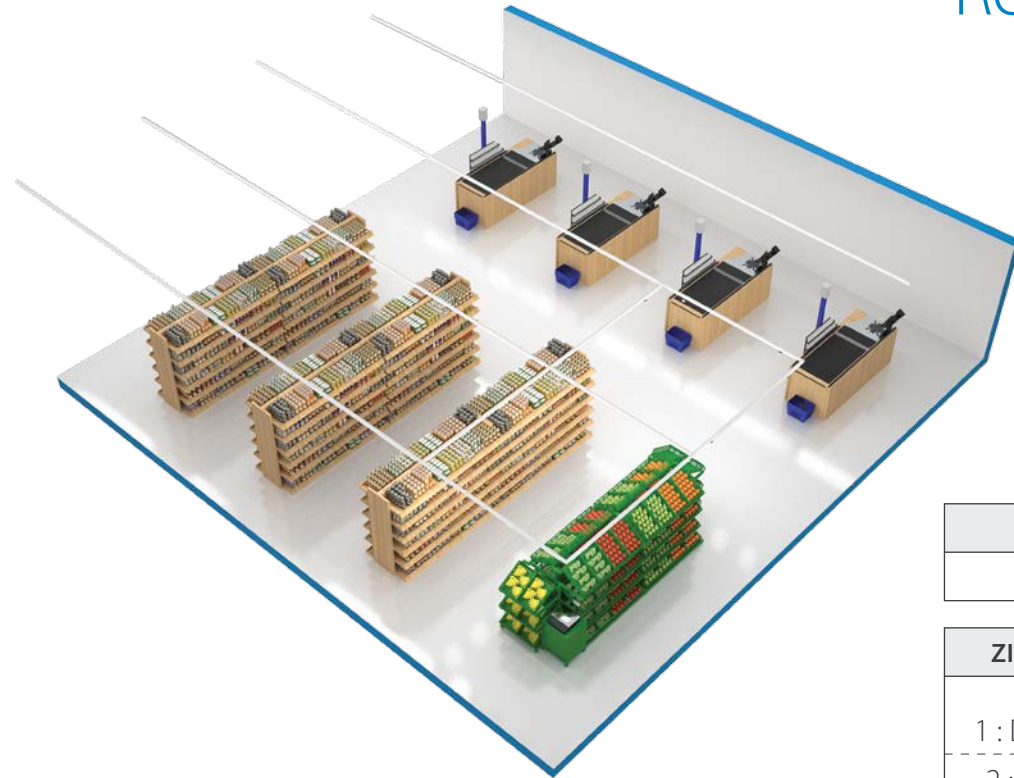
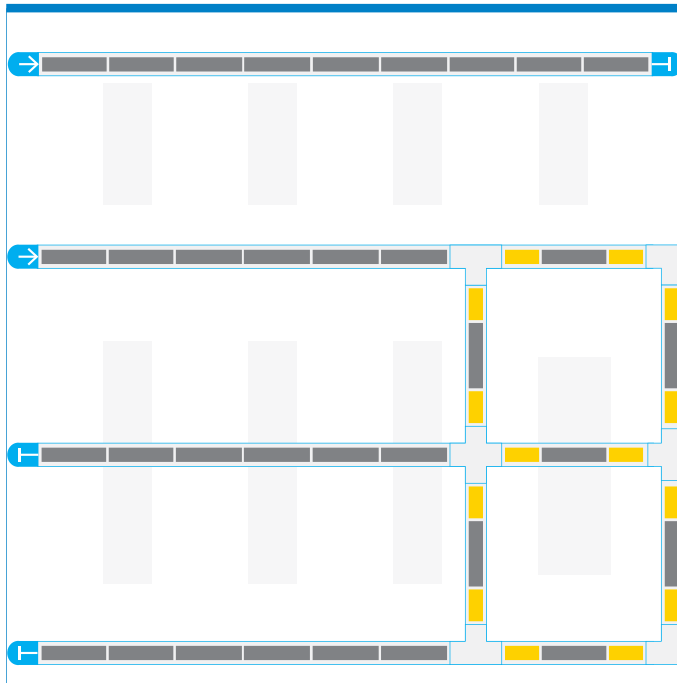
B	LUMINAIRES
42x	Narrow distribution luminaire modules

C	MODULE OPTIONS
12x	High level PIR modules
6x	Corridor distribution Scanlight AT modules

D	FINISHING COMPONENTS
6x	Trunking End kits
3x	1.5m length of the Snap-in Infill Lid cut to six 750mm lengths
36x	Wire Suspension kits

Lighting Solution

Retail



AREA
14m x 14m
ZIPLINE SYSTEM
4 : Rows
1 : Display section
2 : Wiring points

Key:

A	TRUNKING
61.5m	of trunking required 9 x 4.5m lengths 7 x 3m lengths
2x	Elbow Joints
3x	Tee Joints
1x	Crossover Joint

B	LUMINAIRES
34x	Broad distribution luminaire modules

C	MODULE OPTIONS
14x	Single Spotlight modules

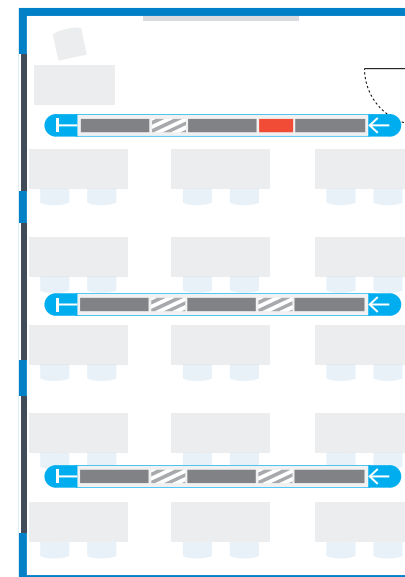
D	FINISHING COMPONENTS
3x	Trunking End kits
+ 26x	Wire Suspension kits

Lighting Solution

Education



ROOM
8m x 7m
ZIPLINE SYSTEM
3 : Rows
3 : Wiring points



Key:

A	TRUNKING
18m	of trunking required 6 x 3m lengths

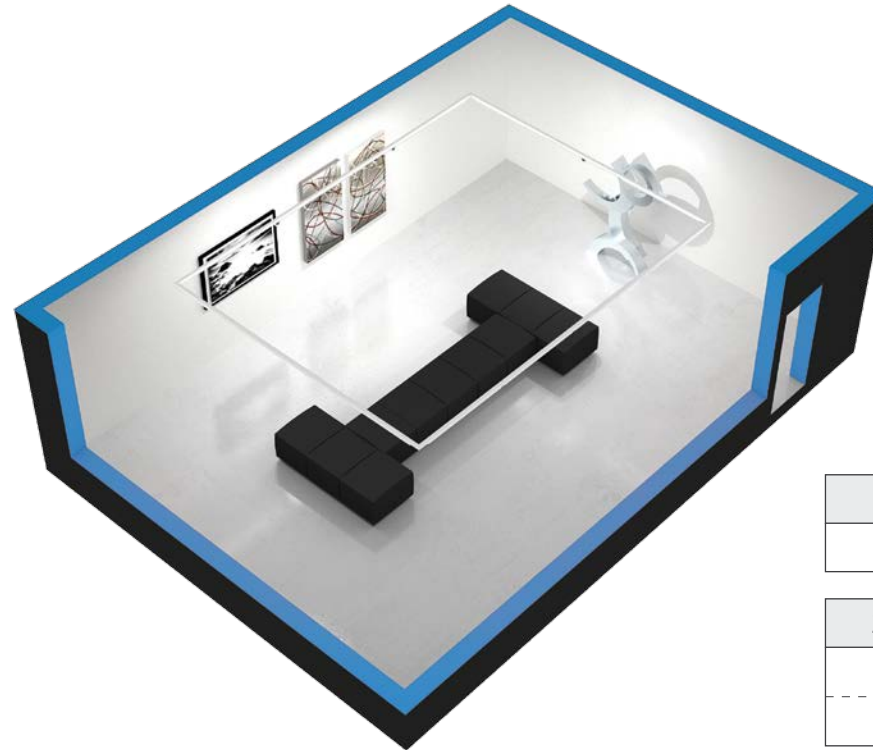
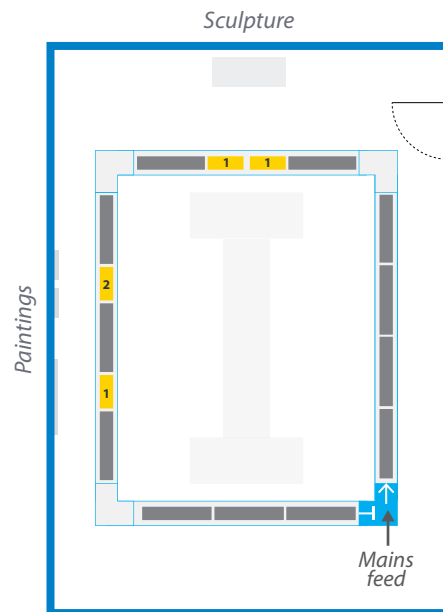
B	LUMINAIRES
9x	Broad distribution luminaire modules

C	MODULE OPTIONS
1x	Area distribution Scanlight AT module

D	FINISHING COMPONENTS
3x	Trunking End kits
3x	1.5m length of the Snap-in Infill Lid cut to five 750mm lengths
9x	Wire Suspension kits

Lighting Solution

Gallery



ROOM
8m x 7m
ZIPLINE SYSTEM
6m x 4.5m
1 : Wiring point

Key:

A	TRUNKING
21m	of trunking required 4 x 3m lengths 2 x 4.5m lengths
4x	Elbow Joints

B	LUMINAIRES
12x	Broad distribution luminaire modules

C	MODULE OPTIONS
1	3x Single Spotlight modules
2	1x Twin Spotlight module

D	FINISHING COMPONENTS
+	12x Wire Suspension kits

Zipline



SPECIFICATION

- Extruded aluminium trunking finished full polyester non-yellowing satin white (RAL 9016)
- Pre-installed wiring loom, module sockets at 750mm intervals
- Plug and socket connections between trunking joints
- Luminaire modules have three lens variations
- Optional SmartScan wireless technology removes the need for control cabling. Ideal for retro-fit.
- Modules click fit using stainless steel spring (requires a standard screwdriver to release)

LED CHARACTERISTICS

CRI	80+
COLOUR TEMPERATURE	4000K
RATED LIFE (HOURS)	100K - L70/B10
PROTECTION	LUX GUARD
DRIVER EFFICIENCY	>88%
REPLACEABLE	YES
POWER FACTOR	>0.9
LL/CW	167.2

For LED characteristics explanation see www.thorlux.com/led-characteristics



Learn more about SmartScan at:
www.thorlux.com/smartscan

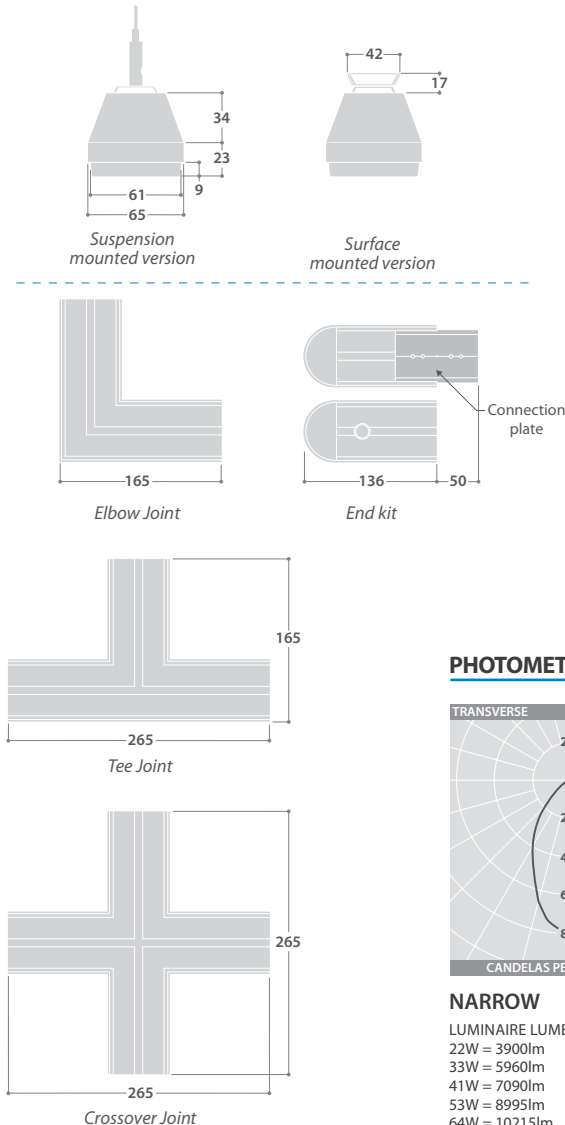
WEB LINKS

thorlux.com/smart

thorlux.com/scanlight-at

Technical Details

DIMENSIONS

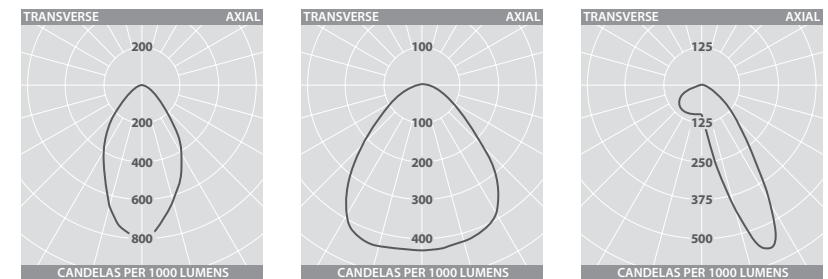


MOUNTING POINT SPACING TABLE

Based on a maximum spacing of 2.5m between points. The first and last points are 500mm from each end. These apply to both suspended and surface mounting.

TOTAL LENGTH	QUANTITY	SPACING
4.5m	3	1.750m
6.0m	3	2.500m
7.5m	4	2.167m
9.0m	5	2.000m
10.5m	5	2.375m
12.0m	6	2.200m
13.5m	6	2.500m
15.0m	7	2.334m
16.5m	8	2.215m
18.0m	8	2.429m
19.5m	9	2.313m
21.0m	9	2.500m
22.5m	10	2.389m
24.0m	11	2.300m
25.5m	11	2.450m
27.0m	12	2.364m
28.5m	12	2.500m
30.0m	13	2.417m
31.5m	14	2.347m
33.0m	14	2.462m
34.5m	15	2.393m

PHOTOMETRIC GUIDE



NARROW

LUMINAIRE LUMEN OUTPUT
 22W = 3900lm
 33W = 5960lm
 41W = 7090lm
 53W = 8995lm
 64W = 10215lm

BROAD

LUMINAIRE LUMEN OUTPUT
 22W = 3825lm
 33W = 5845lm
 41W = 6955lm
 53W = 8825lm
 64W = 10025lm

DOUBLE ASYMMETRIC

LUMINAIRE LUMEN OUTPUT
 22W = 3935lm
 33W = 6020lm
 41W = 7160lm
 53W = 9090lm
 64W = 10325lm

Ordering Information

TRUNKING RANGE

DESCRIPTION	CAT. No.	APPROX. kg
1.5m	ZP 16412	1.6
3.0m	ZP 16411	3.2
4.5m	ZP 16410	4.8
Elbow joint	ZP 16556	0.2
Tee joint	ZP 16557	0.3
Crossover joint	ZP 16558	0.4

FINISHING COMPONENTS

DESCRIPTION	CAT. No.	APPROX. kg
Trunking snap-in infill lid (nominal 1.5m lengths to be cut as required)	ZP 16413	0.30
Trunking end kit (1 kit required per row, includes live end and dead end)	ZP 16414	0.35
Wire suspension kit* (3m length)	ZP 16415	0.05
Surface mounting kit*	ZP 16689	0.04

*see the mounting point spacing table for required quantities

LUMINAIRE MODULE RANGE

	NOMINAL SIZE (mm)	LED	NARROW	BROAD	DOUBLE ASYMMETRIC	APPROX. kg	CIRCUIT
SMART	1500	22W	ZP 16416	ZP 16420	ZP 16561	2.5	D/SS
		33W	ZP 16417	ZP 16421	ZP 16562	2.5	D/SS
		41W	ZP 16418	ZP 16422	ZP 16563	2.5	D/SS
		53W	ZP 16419	ZP 16423	ZP 16564	2.5	D/SS
		64W	ZP 16602	ZP 16600	ZP 16604	2.5	D/SS
STANDARD	1500	22W	ZP 16424	ZP 16428	ZP 16565	2.4	L/A
		33W	ZP 16425	ZP 16429	ZP 16566	2.4	L/A
		41W	ZP 16426	ZP 16430	ZP 16567	2.4	L/A
		53W	ZP 16427	ZP 16431	ZP 16568	2.4	L/A
		64W	ZP 16603	ZP 16601	ZP 16605	2.4	L/A

CIRCUIT TYPE - suffix catalogue number with:

SMART D - Smart / SS - SmartScan

STANDARD L - non-dimming (LED) / A - dimming (DALI) e.g. **ZP 16416SS** etc.

EMERGENCY VERSION - prefix catalogue number with:

EZP - Emergency / **TZP** - AutoTest / **DZP** - Scanlight AT (DALI) e.g. **EZP 16416SS** etc.

Add 0.3kg to weights listed.

MODULE OPTIONS

DESCRIPTION	APPROX. CAT. No.	kg
Presence detector module	ZP 16432	0.9
Scanlight AT module (area downlighter)	DZP 16435	1.3
Scanlight AT module (corridor downlighter)	DZP 16436	1.3
SmartScan Firefly Emergency (area downlighter)	WZP 16435	1.3
SmartScan Firefly Emergency (corridor downlighter)	WZP 16436	1.3
1 x 24W spotlight module (30° beam angle)	ZP 16559	1.6
2 x 24W spotlight module (30° beam angle)	ZP 16560	2.3



Designers, manufacturers and suppliers
of professional lighting systems

INDUSTRIAL LUMINAIRES
COMMERCIAL LUMINAIRES
FLOODLIGHTING LUMINAIRES
ARCHITECTURAL LUMINAIRES
HEALTHCARE LUMINAIRES
HAZARDOUS AREA LUMINAIRES
RETAIL & DISPLAY LUMINAIRES
CONTROLS AND SYSTEMS

A DIVISION OF F.W. THORPE PLC

Thorlux Carbon Offsetting Project:
www.thorlux.com/trees

The information given in this catalogue is typical and must not be interpreted as a guarantee of individual product performance and/or characteristics. We reserve the right to alter specifications and designs without prior notice.

PN. 2500E Feb. 18

Thorlux Lighting
Merse Road
North Moons Moat
Redditch
Worcestershire
B98 9HH
England

T +44 (0)1527 583200
F +44 (0)1527 584177
E thorlux@thorlux.co.uk
W www.thorlux.com

Direct UK Sales Line: 01527 583222

Thorlux Lighting Ireland
Unit G6
Riverview Business Park
Nangor Road
Gallanstown
Dublin 12
Ireland

T +353 (0)1 460 4608
F +353 (0)1 460 4609
E thorlux@thorlux.ie
W www.thorlux.ie

Thorlux Lighting Deutschland
Ernst Gnoß Strasse 7
40219 Düsseldorf
Deutschland

T +49 (0)211 695 603-10
F +49 (0)211 695 603-11
E thorlux@thorlux.de
W www.thorlux.de

Thorlux Lighting Australasia Pty Ltd.
31 Cross Street
Brookvale
Sydney
NSW 2100
Australia

T 1300 04 32 32
T +61 (0)2 9907 1261
E thorlux@thorlux.com.au
W www.thorlux.com.au

Registered No. ABN 139 400 507

Thorlux Lighting LLC
Office 334
European Business Centre
Green Community
Dubai Investment Park 1
PO Box 33484
Dubai
United Arab Emirates

T +971 (0)2 656 5842
F +971 (0)2 622 4149
E sales@thorlux.ae
W www.thorlux.ae

