



# Introduction to Zipline

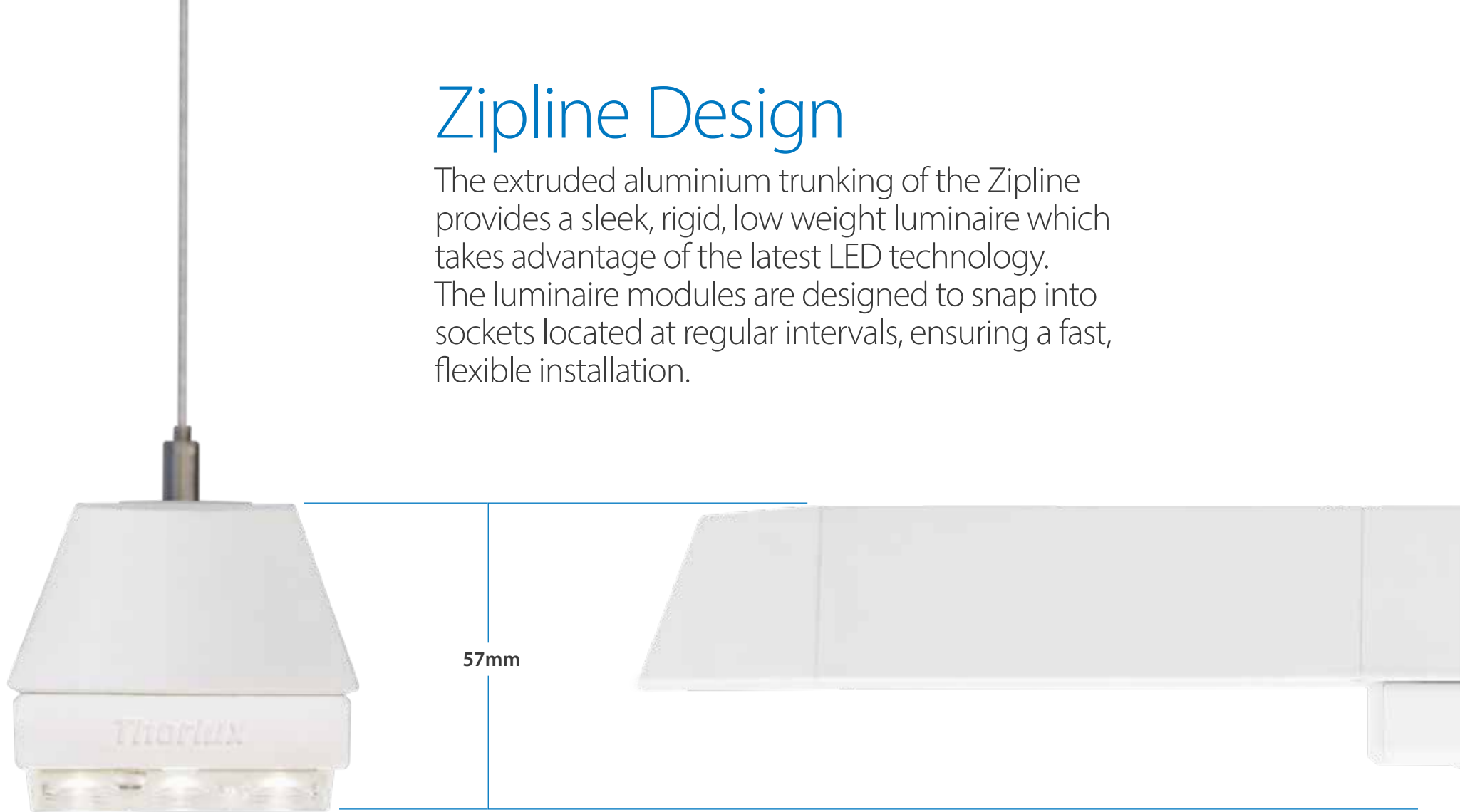
The Zipline is a self-contained pre-wired trunking and LED lighting system offering unparalleled flexibility in terms of lighting layout and scheme design. The Zipline combines architectural impact, longevity and supreme efficiency (192.1 LL/CW) providing the lighting designer with the perfect lighting 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.



192.1 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.

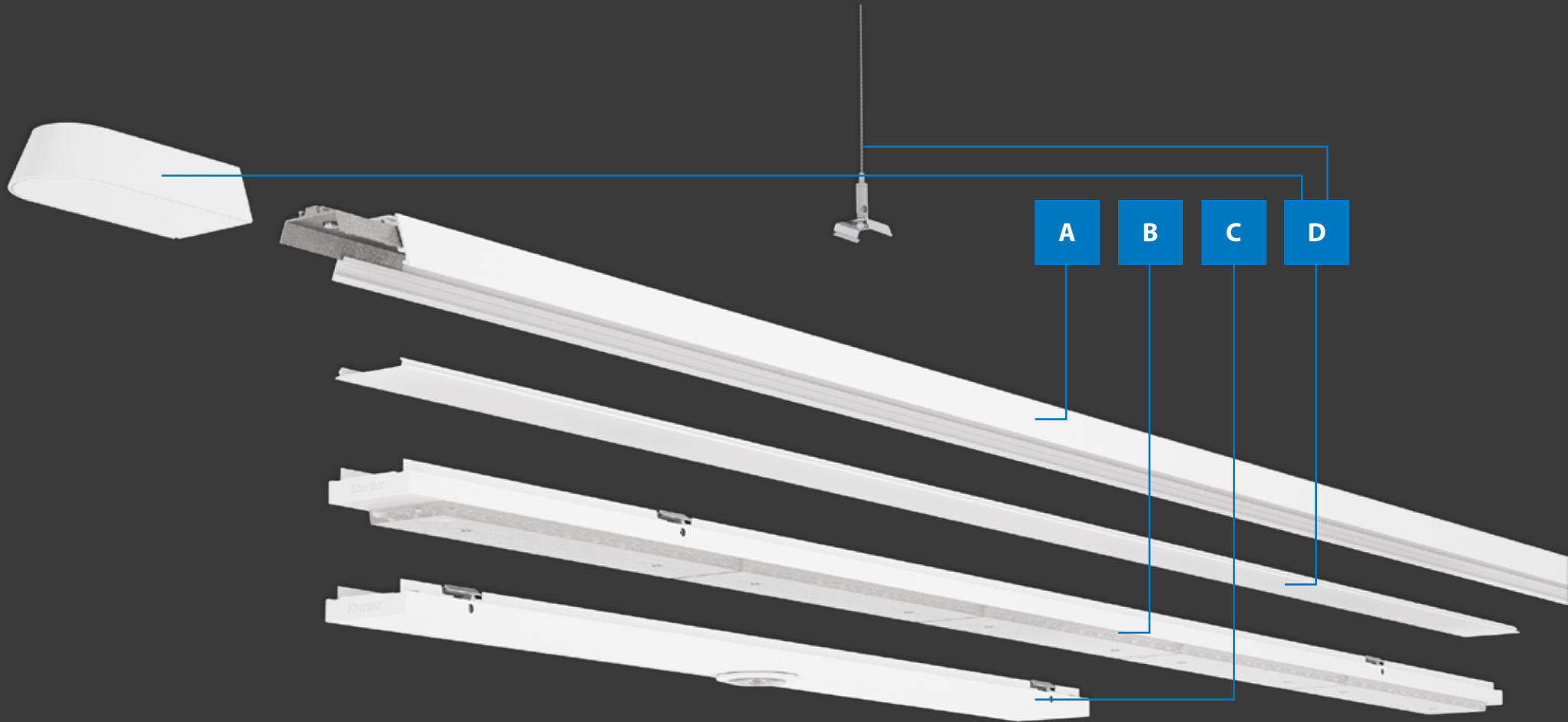


1:1 Scale



# 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 1.5mm<sup>2</sup> 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.



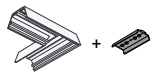
### Options

Available lengths:

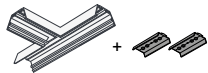


Maximum total distance in one run depends upon circuit design. See advice on **page 14**

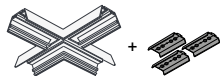
### Elbow Joint



### Tee Joint

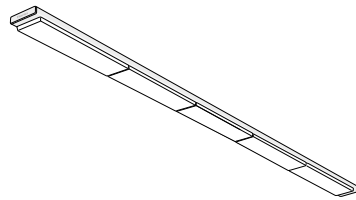


### Crossover Joint



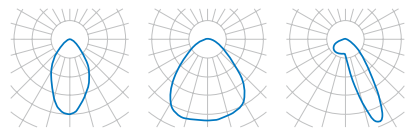
## B LUMINAIRES

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.



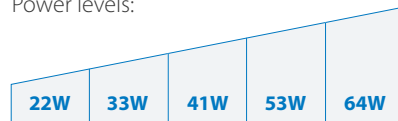
### Options

Distributions:



Narrow Broad Double Asymmetric

Power levels:

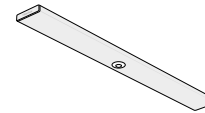


## C MODULE OPTIONS

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.

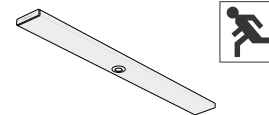
### Lighting Controls

PIR Module



### Emergency Lighting

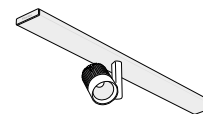
SmartScan Options



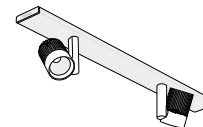
Area and corridor versions available

### Display Lighting

Single Spotlight Module



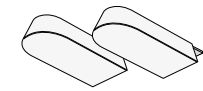
Twin Spotlight Module



## D FINISHING COMPONENTS

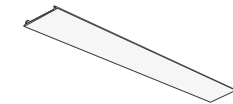
### End Kit

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)

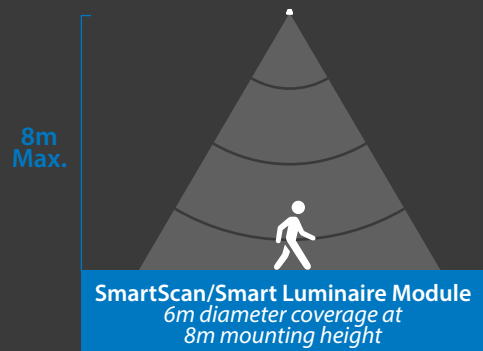
### Smart

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:

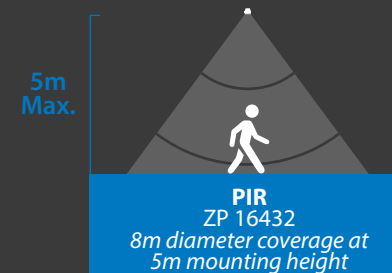


**NOTE:** Minimum 750mm space required between Smart luminaire modules

## 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/controls](http://www.thorlux.com/controls)





# Emergency Lighting

Zipline offers the choice of either emergency versions of the luminaire or dedicated modules which utilise a reliable, unobtrusive SmartScan 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 option, shown as EZP 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 Plus or Firefly

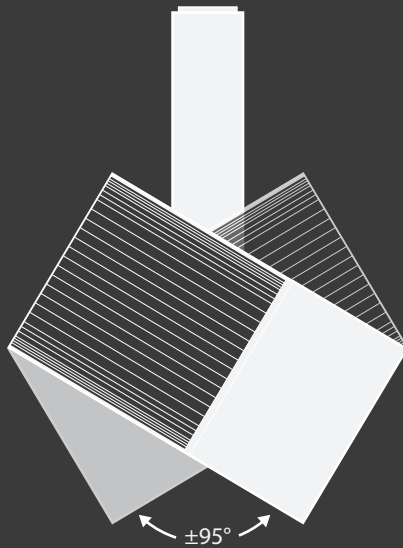
For full details of Thorlux Emergency Lighting Systems see [www.thorlux.com/controls](http://www.thorlux.com/controls)

# Display Lighting

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

## Adjustable Spotlights

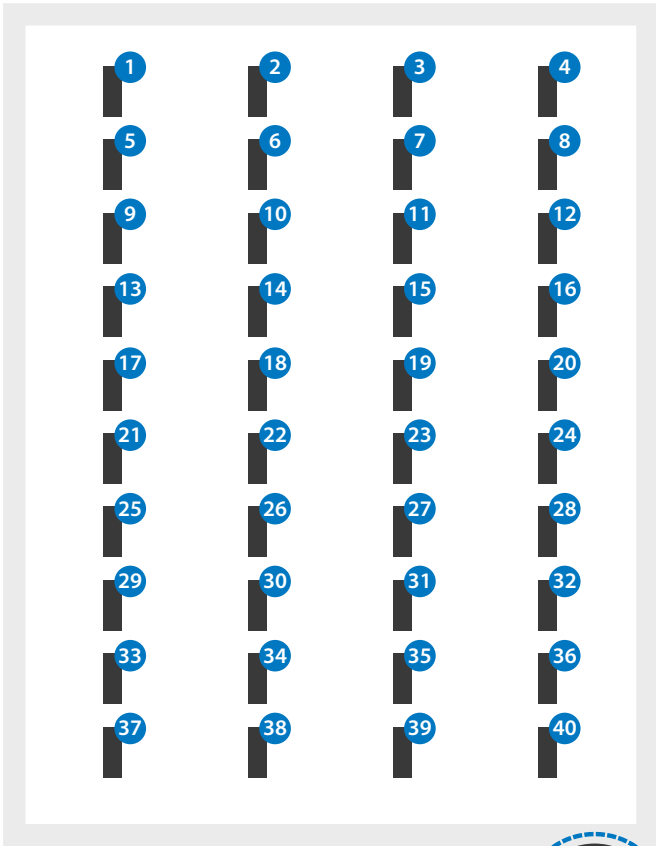
- One or two adjustable spotlights in one 750mm module
- Extruded aluminium heat sink finished in black for passive thermal management with no cooling fan
- Adjustable spotlight with  $\pm 95^\circ$  tilt, 360° degree rotation
- 30° beam angle



# Fast Installation

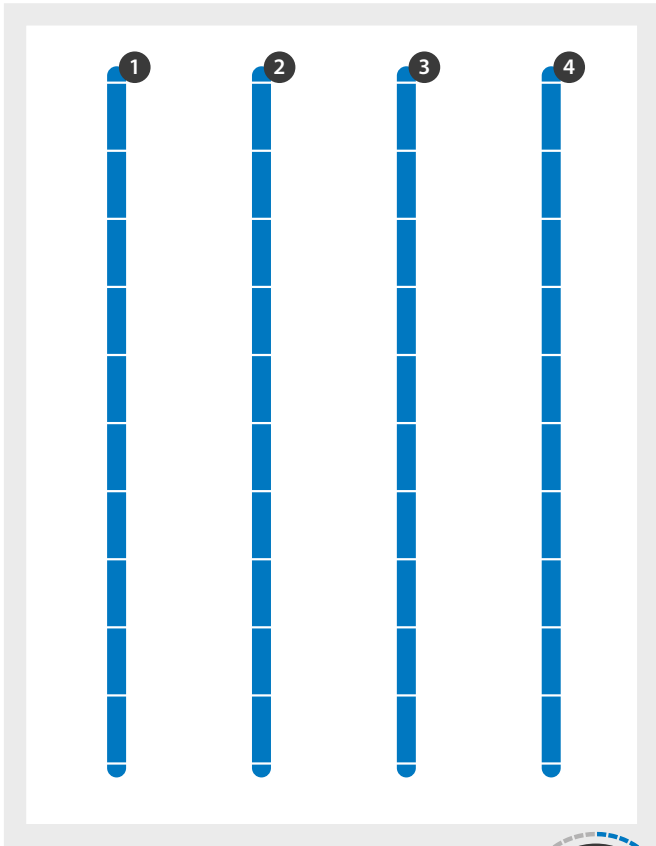
Installation of Zipline requires minimal wiring points compared to that of individual luminaires. Over the course of a project this will drastically reduce labour costs whilst adding future flexibility if changes are required.

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

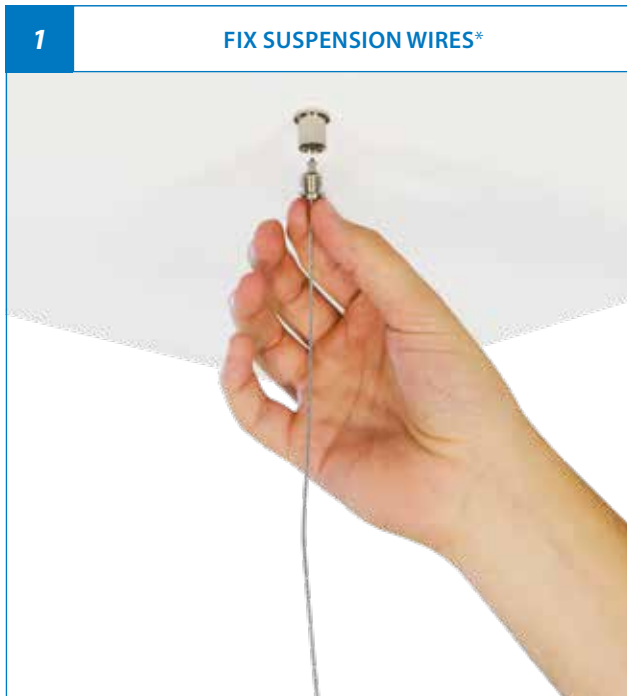
SYSTEM

OPTIONS

INSTALLATION

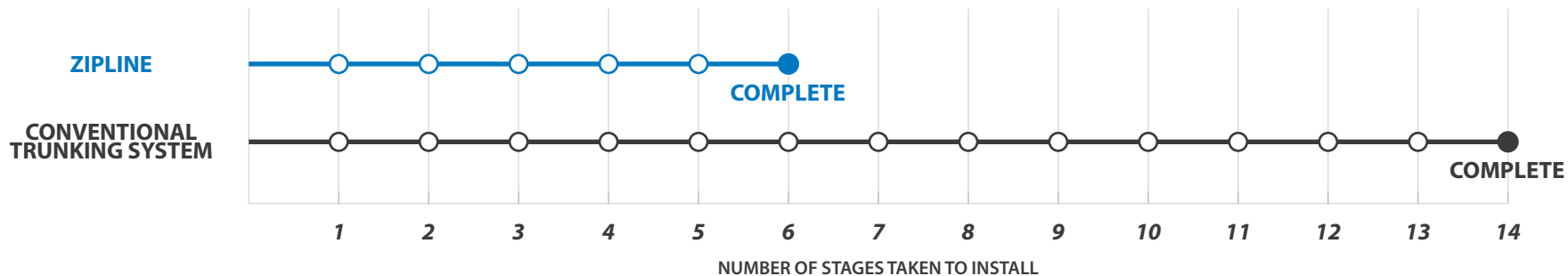
SOLUTIONS

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.



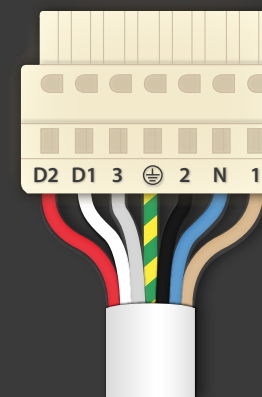
\*\* For wiring details see page 14

# 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

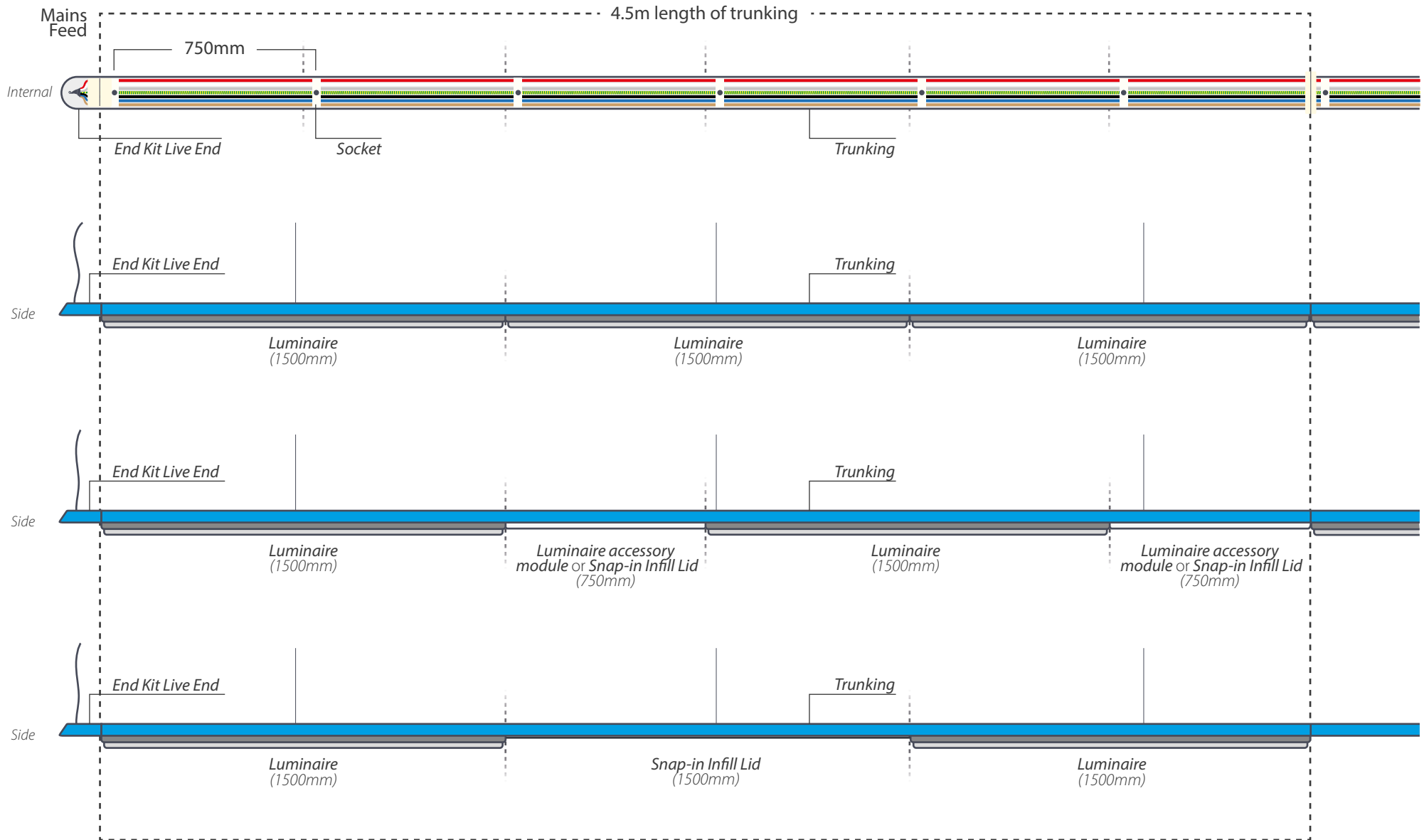
Up to 7 cores may be wired into the Live End connector, depending upon the project requirements\*



	Function	Core
D2	Motionline (+) or DALI	Red
D1	Motionline (-) or DALI	White
3	Switched live: Spot/Track Modules	Grey
⊕	Earth	Green & Yellow
2	Perm/Em/SmartScan	Black
N	Neutral	Blue
1	Switched live: Luminaire Modules	Brown

\* The 7 cables used within the Zipline trunking are 1.5mm<sup>2</sup> 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.

DESIGN

SYSTEM

OPTIONS

INSTALLATION

SOLUTIONS

ORDERING

## RETAIL

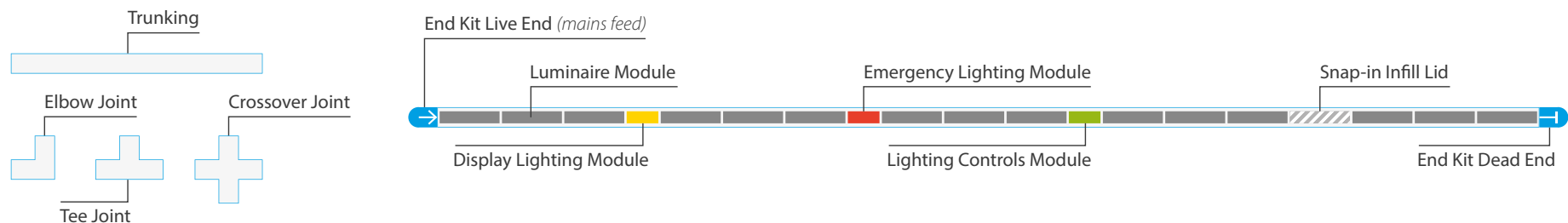


## WAREHOUSE



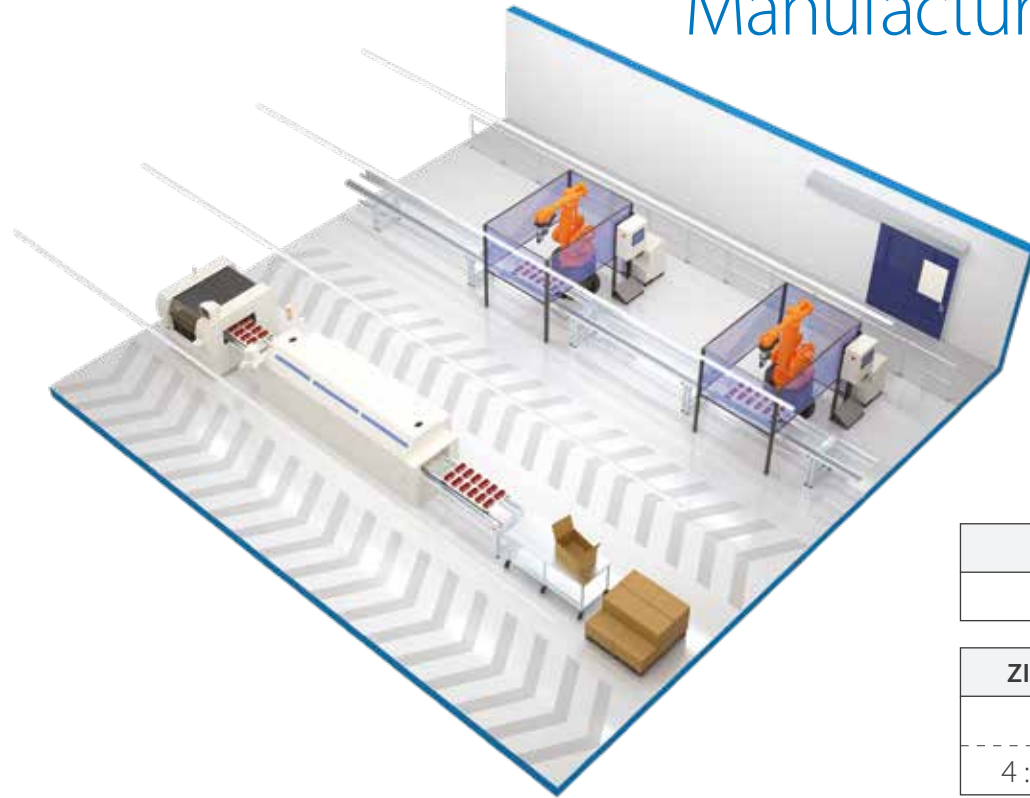
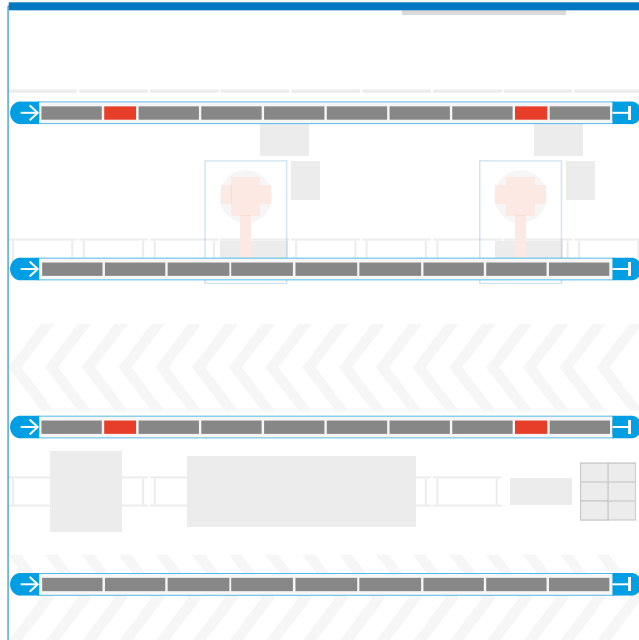
From decorative display lighting in retail used to highlight products, to high output narrow distribution for warehouses, the Zipline system is the lighting solution for virtually all situations.

### 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 SmartScan Firefly modules

**D** FINISHING COMPONENTS

- 4x** Trunking End kits
- + 24x** Wire Suspension kits

# Lighting Solution

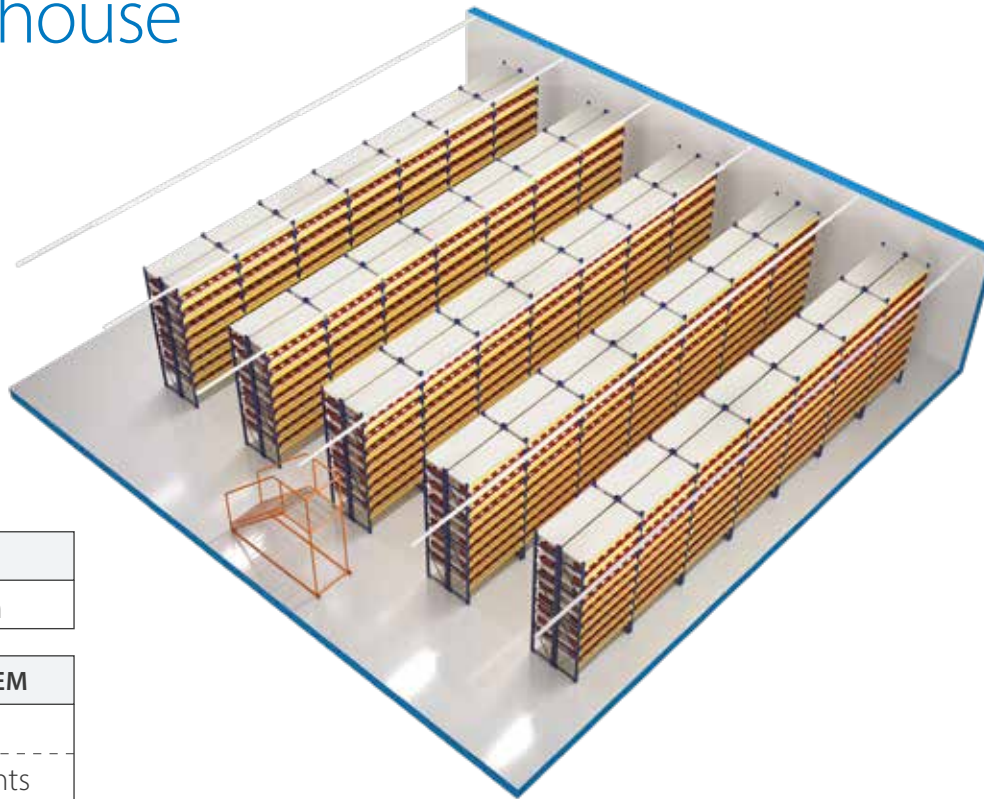
## Warehouse

DESIGN

SYSTEM

OPTIONS

INSTALLATION



<b>AREA</b>
14m x 14m
<b>ZIPLINE SYSTEM</b>
6 : Rows
6: Wiring points



### Key:

SOLUTIONS

ORDERING

**A** **TRUNKING**

**81m** of trunking required  
18 x 4.5m lengths

**B** **LUMINAIRES**

**42x** Narrow distribution luminaire modules

**C** **MODULE OPTIONS**

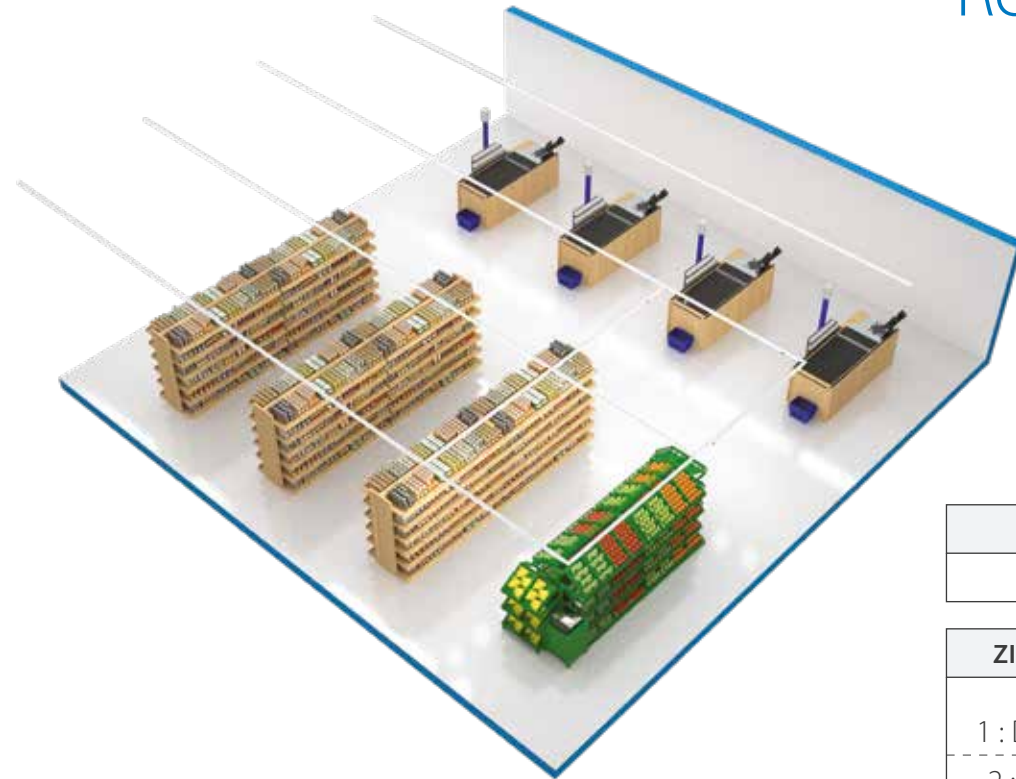
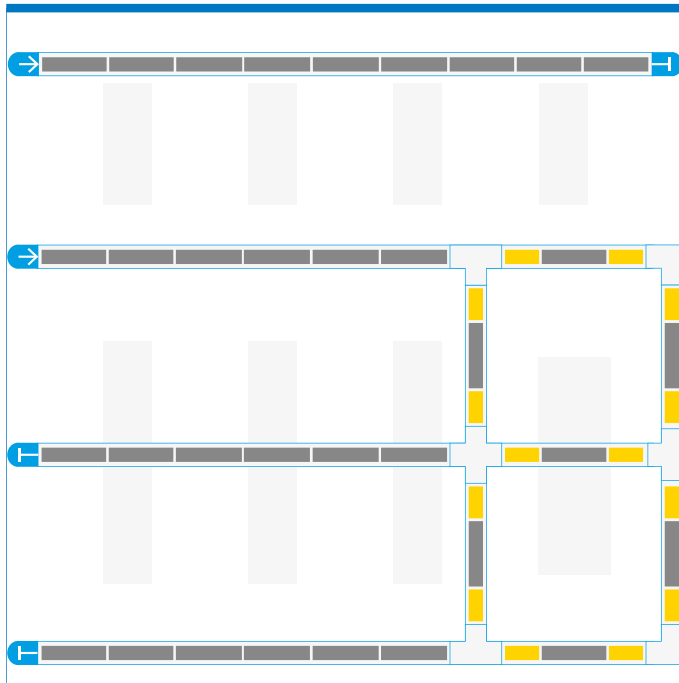
- 12x** High level PIR modules
- 6x** Corridor distribution SmartScan Firefly modules

**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

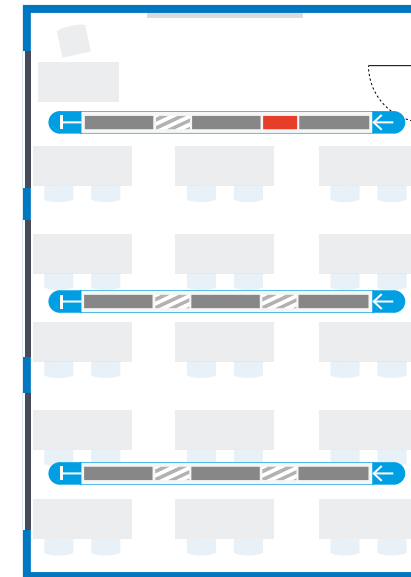
B	LUMINAIRES
34x	Broad distribution luminaire modules

C	MODULE OPTIONS
14x	Single Spotlight modules

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

# Lighting Solution

## Education



<b>ROOM</b>
8m x 7m
<b>ZIPLINE SYSTEM</b>
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 SmartScan Firefly modules

**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

DESIGN

SYSTEM

OPTIONS

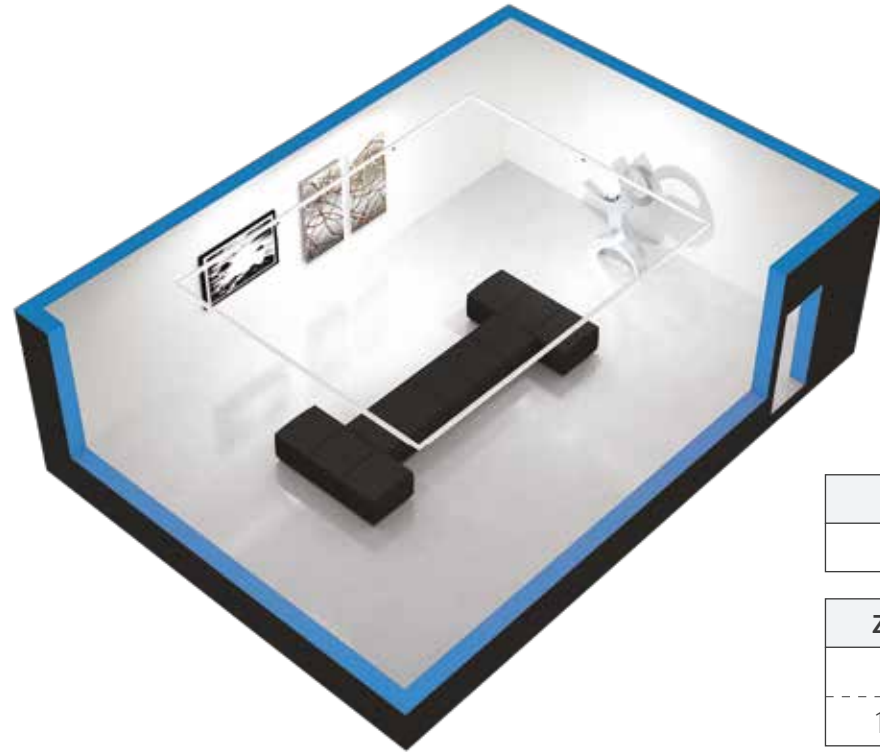
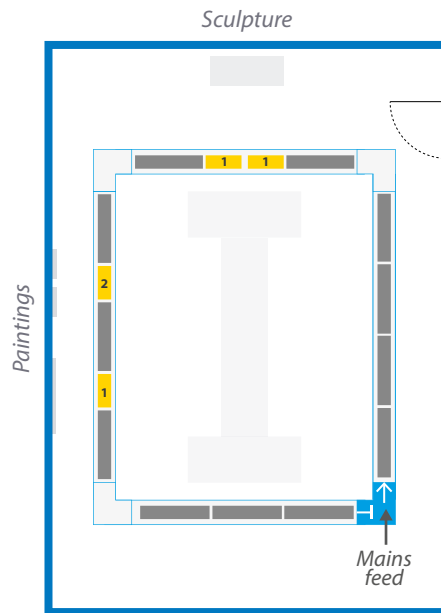
INSTALLATION

SOLUTIONS

ORDERING

# Lighting Solution

## Gallery



<b>ROOM</b>
8m x 7m
<b>ZIPLINE SYSTEM</b>
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 options
- 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	<b>80+</b>
COLOUR TEMPERATURE	<b>4000K</b>
RATED LIFE (HOURS)	<b>100K - L70/B10</b>
PROTECTION	<b>LUX GUARD</b>
DRIVER EFFICIENCY	<b>&gt;88%</b>
REPLACEABLE	<b>YES</b>
POWER FACTOR	<b>&gt;0.9</b>

LL/CW **192.1**

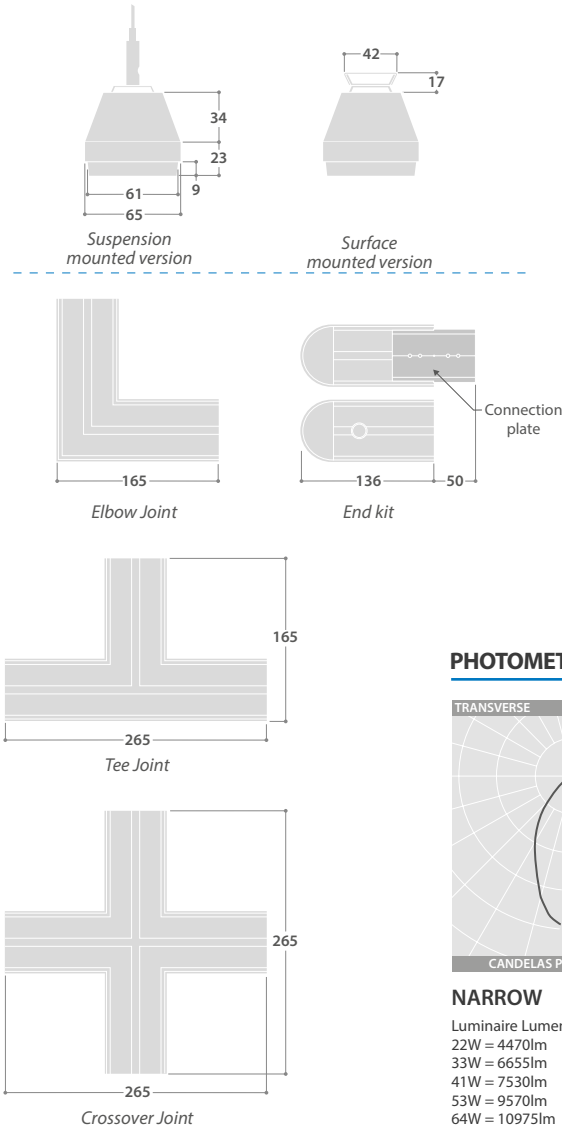
For LED characteristics explanation see [www.thorlux.com/led-guide](http://www.thorlux.com/led-guide)

WEB LINKS

[www.thorlux.com/controls](http://www.thorlux.com/controls)

# Technical Details

## DIMENSIONS

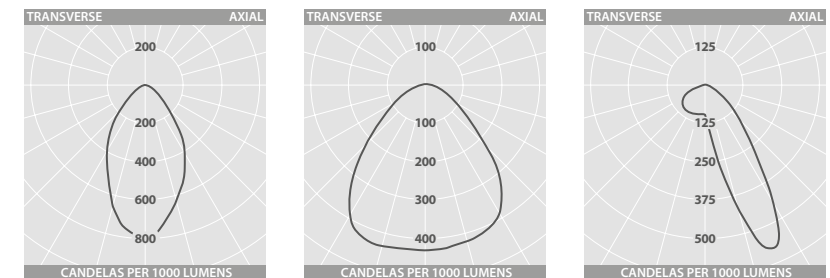


## MOUNTING POINT SPACING TABLE

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 = 4470lm  
 33W = 6655lm  
 41W = 7530lm  
 53W = 9570lm  
 64W = 10975lm

### BROAD

Luminaire Lumen Output  
 22W = 4400lm  
 33W = 6530lm  
 41W = 7395lm  
 53W = 9405lm  
 64W = 10780lm

### DOUBLE ASYMMETRIC

Luminaire Lumen Output  
 22W = 4525lm  
 33W = 6725lm  
 41W = 7640lm  
 53W = 9695lm  
 64W = 11060lm

# Ordering Information

A

B

C

D

## 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
STANDARD	1500	64W	ZP 16602	ZP 16600	ZP 16604	2.5	D/SS
		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 (Not available when selecting the 'SS' suffix)

**WZP** - SmartScan (Only available when selecting the 'SS' suffix)

e.g. WZP 16416SS etc.

Add 0.3kg to weights listed.

## MODULE OPTIONS

DESCRIPTION	APPROX. CAT. No.	kg
Presence detector module	ZP 16432	0.9
SmartScan Firefly Plus Emergency (standard downlighter)	WZP 19627	1.3
SmartScan Firefly Plus Emergency (area downlighter)	WZP 19628	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

### Luminaire Module SmartScan Configurations



Find out more at [www.thorlux.com/smartsan](http://www.thorlux.com/smartsan)

### Emergency Module SmartScan Configurations



Find out more at [www.thorlux.com/smartsan](http://www.thorlux.com/smartsan)



Designers, manufacturers and suppliers  
of professional lighting systems

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

A DIVISION OF F.W. THORPE PLC

**Thorlux Carbon Offsetting Project:**  
[www.thorlux.com/trees](http://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. 2500G Jan. 22

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