Flex System

RETHINK THE POSSIBILITIES

designplan™

TL Thorlux Lighting

THE FLEX SYSTEM
REVOLUTIONISES
THE WAY YOU
LIGHT A SPACE

Flexline

Flexview

BREAK AWAY FROM CONVENTION

Flexline

Flexview

CREATE INSPIRATIONAL SPACES
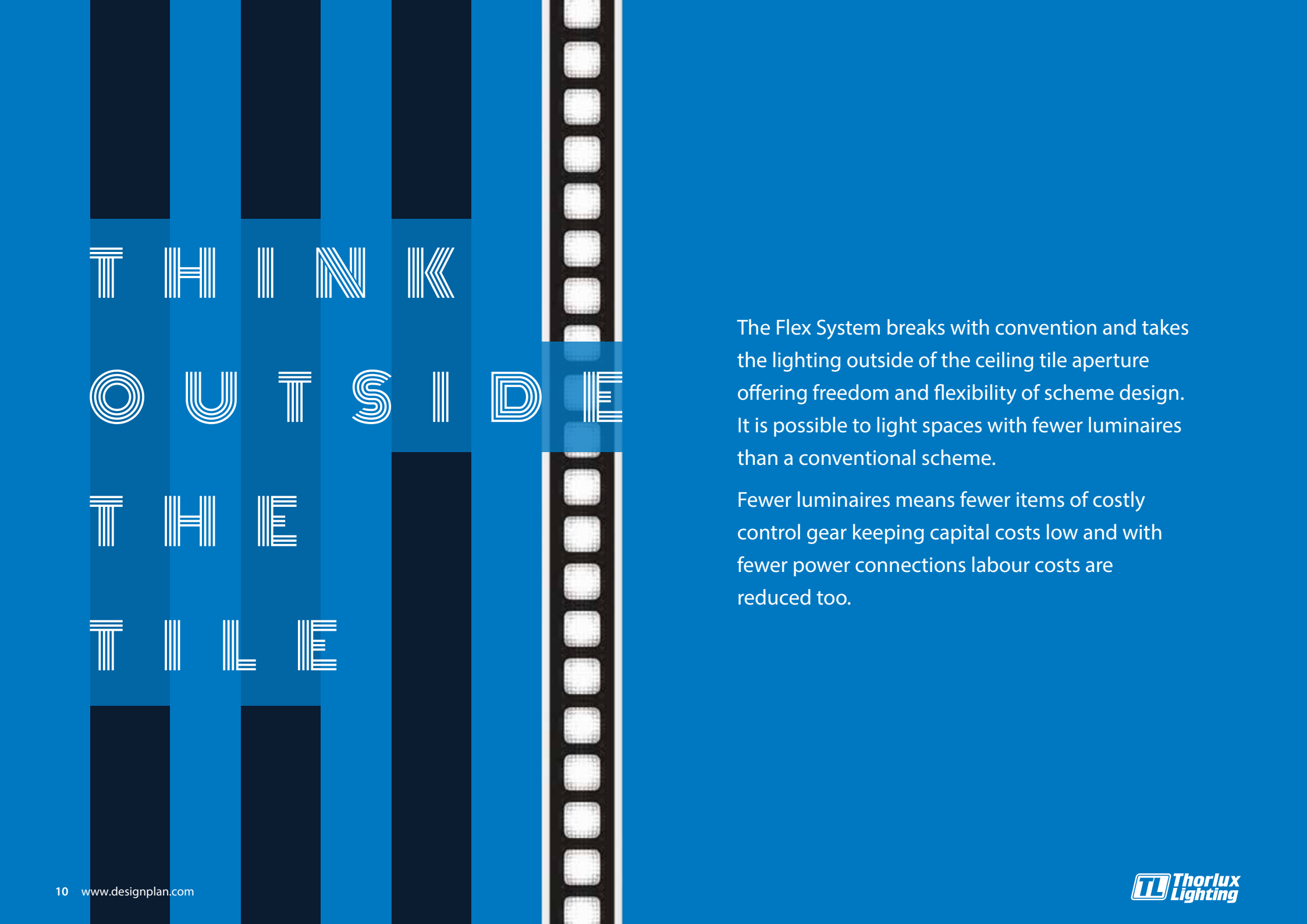
INTRODUCING THE

Flex System
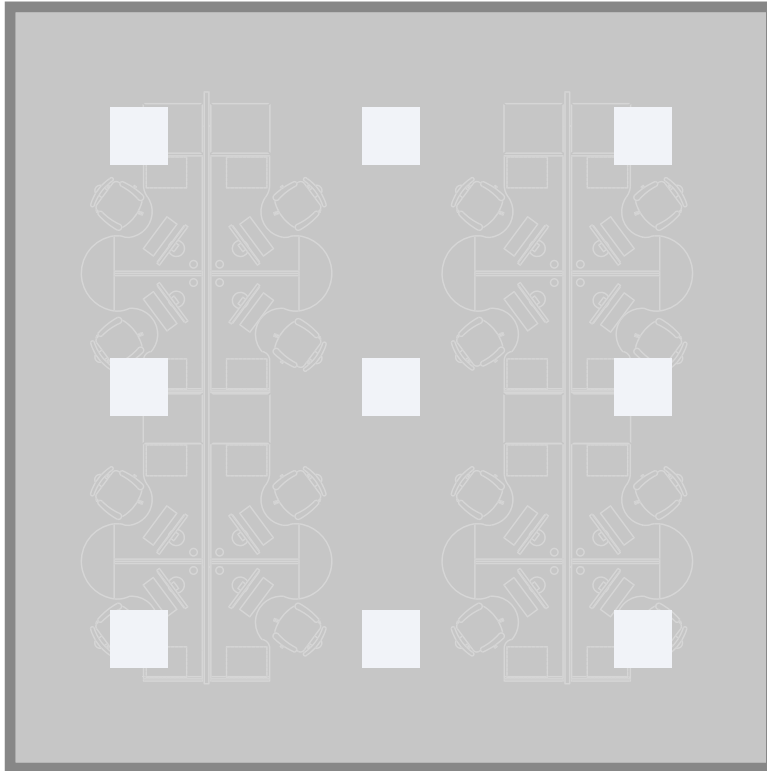
Flexview

Flexline

Thorlux Lighting

THINK OUTSIDE THE TILE

The Flex System breaks with convention and takes the lighting outside of the ceiling tile aperture offering freedom and flexibility of scheme design. It is possible to light spaces with fewer luminaires than a conventional scheme.

Fewer luminaires means fewer items of costly control gear keeping capital costs low and with fewer power connections labour costs are reduced too.
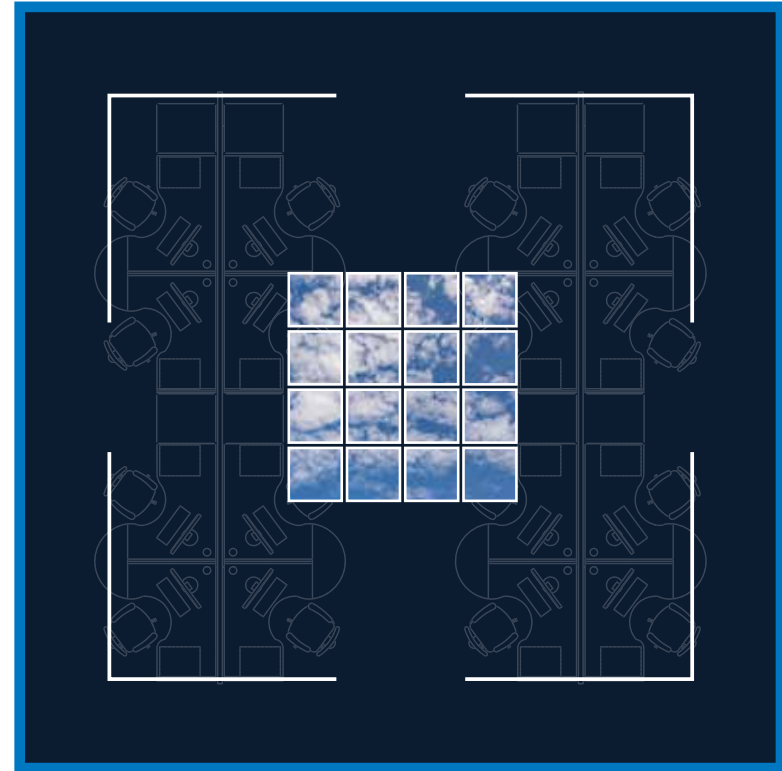
TL Thorlux Lighting

Conventional

9
Luminaires

9
Sets of
control gear

9
Power
connections

Flex System

5
Luminaire kits

⬚ **Flex**line
4x Corner - 2.4m

▦ **Flex**view
1x Sixteen

5
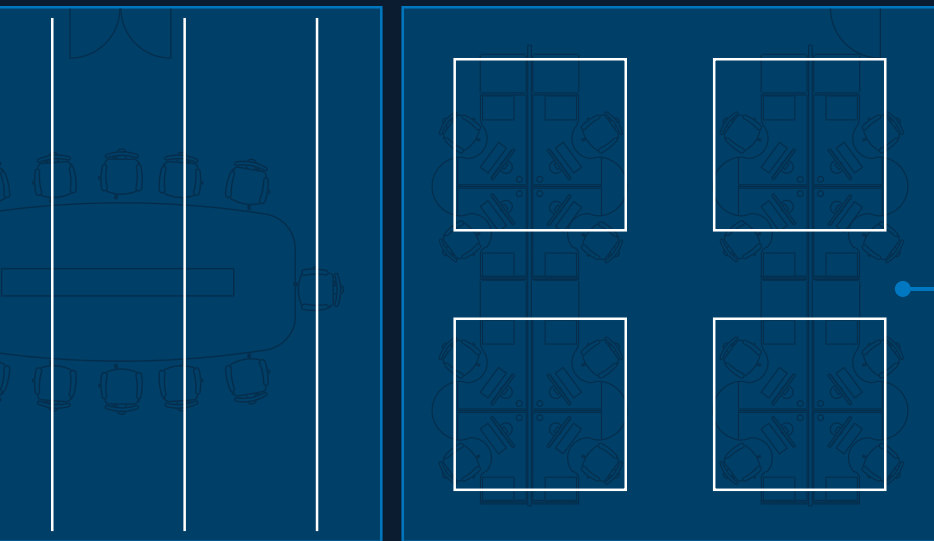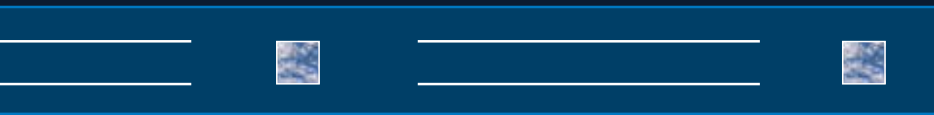Sets of
control gear

5
Power
connections

TL Thorlux Lighting

BE CREATIVE WITH YOUR SPACE

Flexline and Flexview are available in different size kits allowing you to be creative with your lighting.

Thorlux Lighting

Flexline

Flexview
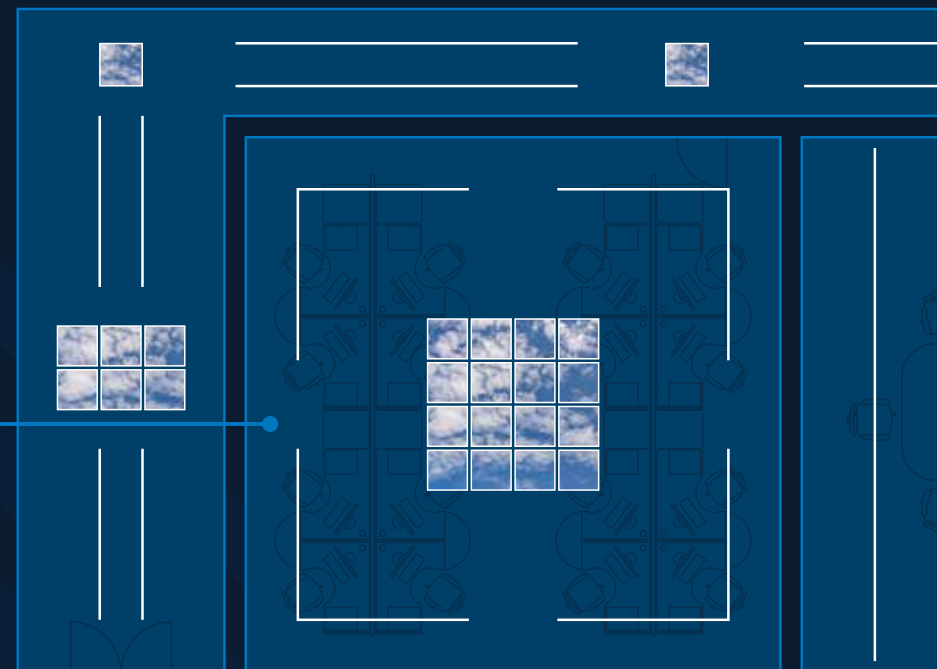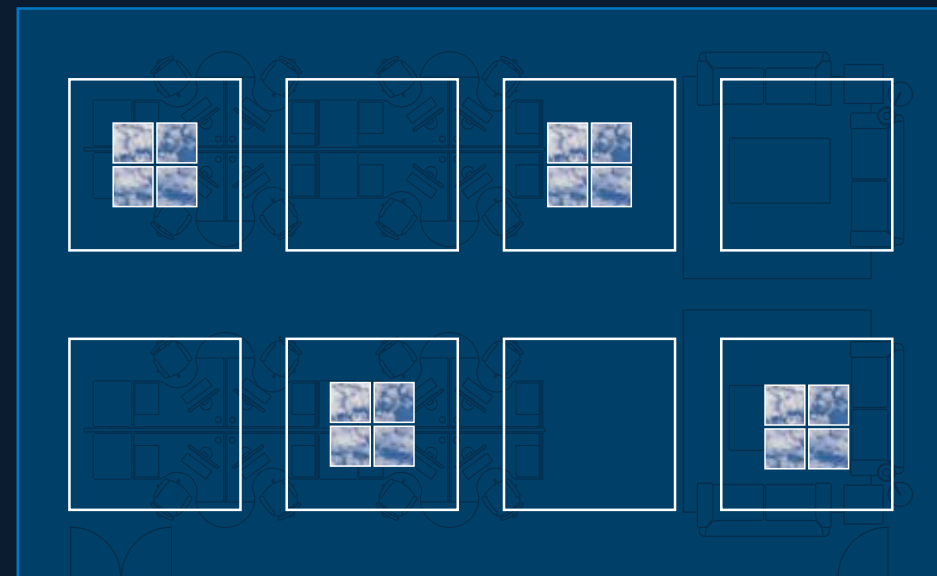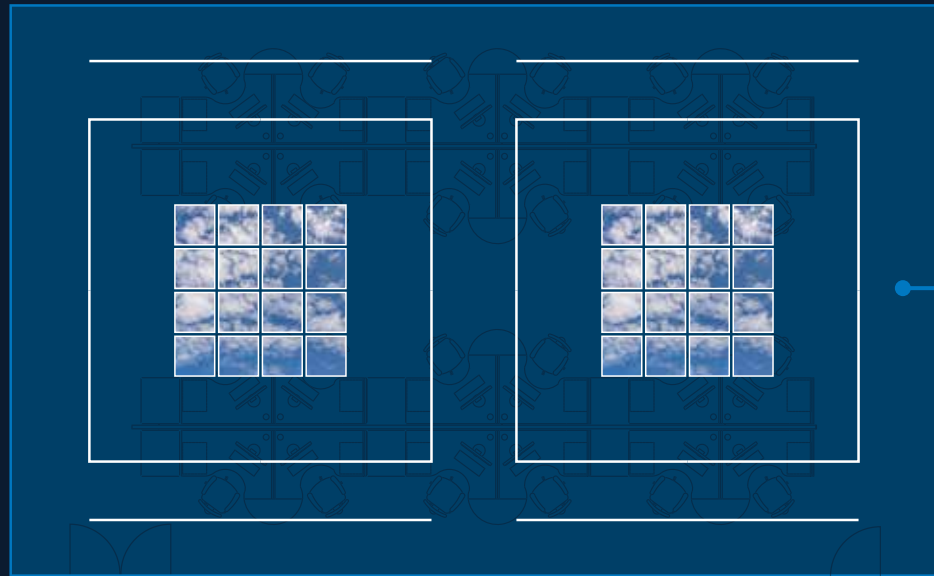
TAKE
CONTROL
OF GLARE

Poor glare control from lighting can be distracting and cause discomfort which may lead to headaches, eye strain and fatigue. Ultimately this may affect a person's performance, productivity and health. The new Flex System offers a choice of three optics to match the light distribution and luminaire brightness to the needs and users of the space.

Black

Ultra low glare optic with black louvre finish for the ultimate control of light. Ideal for applications where luminaire brightness is undesirable or mood/ambience is important.

Typical glare rating

UGR <10

Thorlux Lighting

Flexline

Metallized

Low glare optics with metallised louvre finish for high
performance and efficacy. Ideal for applications such
as offices, teaching spaces or any area where glare is a concern.

Typical glare rating

UGR <15

White

High performance white louvre for efficiency and vibrancy.
Ideal for general purpose applications where luminaire
brightness is of minimal concern.

Typical glare rating

UGR <20

Flexview

THE POWER IS IN YOUR HANDS

The wattage of the Flexline and Flexview luminaires can be adjusted on-site through the "selector switch" mounted on the control gear enclosure.

The selector switch can be set to one of four pre-determined wattages, providing a range of light outputs from a single luminaire.

This feature offers a number of benefits, such as:

• Simple ordering, just one part number for all wattages.

• Easier on site management during installation, no organising which wattage luminaire goes where.

• Flexibility to change the desired light level through life, particularly useful if the space changes use.

CUSTOMISE, CONTROL & CONNECT

with **SmartScan**

SmartScan is a revolutionary wireless lighting control system that allows users to monitor their energy performance data and complete operational information for all SmartScan standard and emergency luminaires.

Information is displayed on the SmartScan website which can be accessed from anywhere using a computer, laptop, tablet or smart-phone.

The graphical user interface provides an overview of the whole site, through to the performance and operation of an individual luminaire.

Find out more at **www.thorlux.com/smartscan**

Thorlux Lighting

Flexline

Flexview

Introduction

◻ **Flex**line

Think Outside the Tile

The super narrow 0.94" profile is designed specifically for mounting to an exposed T-Bar ceiling and contains sophisticated optical elements making the Flexline a unique, highly efficient luminaire.

Actual Size

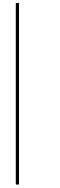**TL** **Thorlux Lighting**

Flexline

Kits

Single
5.91'

Single
7.87'

Single
11.81'

Single
15.75'

Twin
5.91'

Twin
7.87'
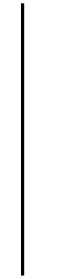
Twin
11.81'

Twin
15.75'
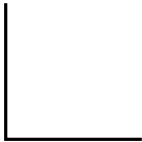
Corner
5.91'

Corner
7.87'
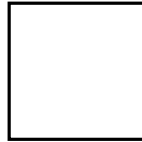
Square
5.91'
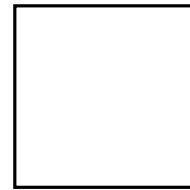
Square
7.87'

Rectangle
7.87' x 3.94'

Thorlux Lighting

Flexline
Construction

Spring Steel Mounting Clip

Twist-fit tool free installation to a T-bar. Clip-fit to the Flexline

Steel Joining Clip

For tool free joining of lengths

Extruded Aluminum Profile

Anodized finish

LED PCB

Populated with high efficiency, medium power LEDs

Optical Assembly

Patented nanoprism optics for high performance and broad distribution

Louvre

Glare controlling louvre with black, metallised and white options

Thorlux Lighting

Ribbon Power Cable

The flat profile of the power cable, connecting the luminaire to its power pack, can be routed so there is no need to cut ceiling tiles.

Tool Free Installation

Luminaires clip to the T-bar without the need for tools.

Remote Gear Unit

Control gear is contained within a metal flame retardant enclosure located above a ceiling tile and firmly clipped to the grid.

Push-Fit Connections

Flexline can be connected together for a continuous line of light. Kits can be joined using steel springs (included) or finished using push-fit end cap.

TL Thorlux Lighting

Features

Black

Metallized

White

Remote Smart Sensor

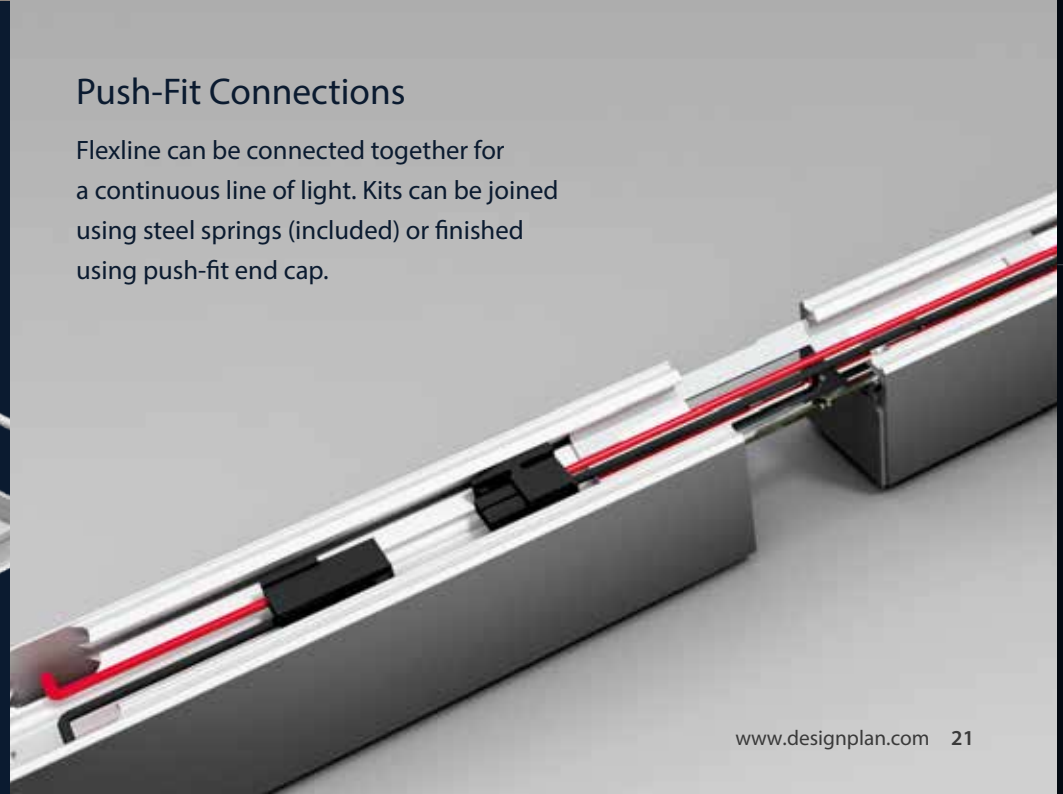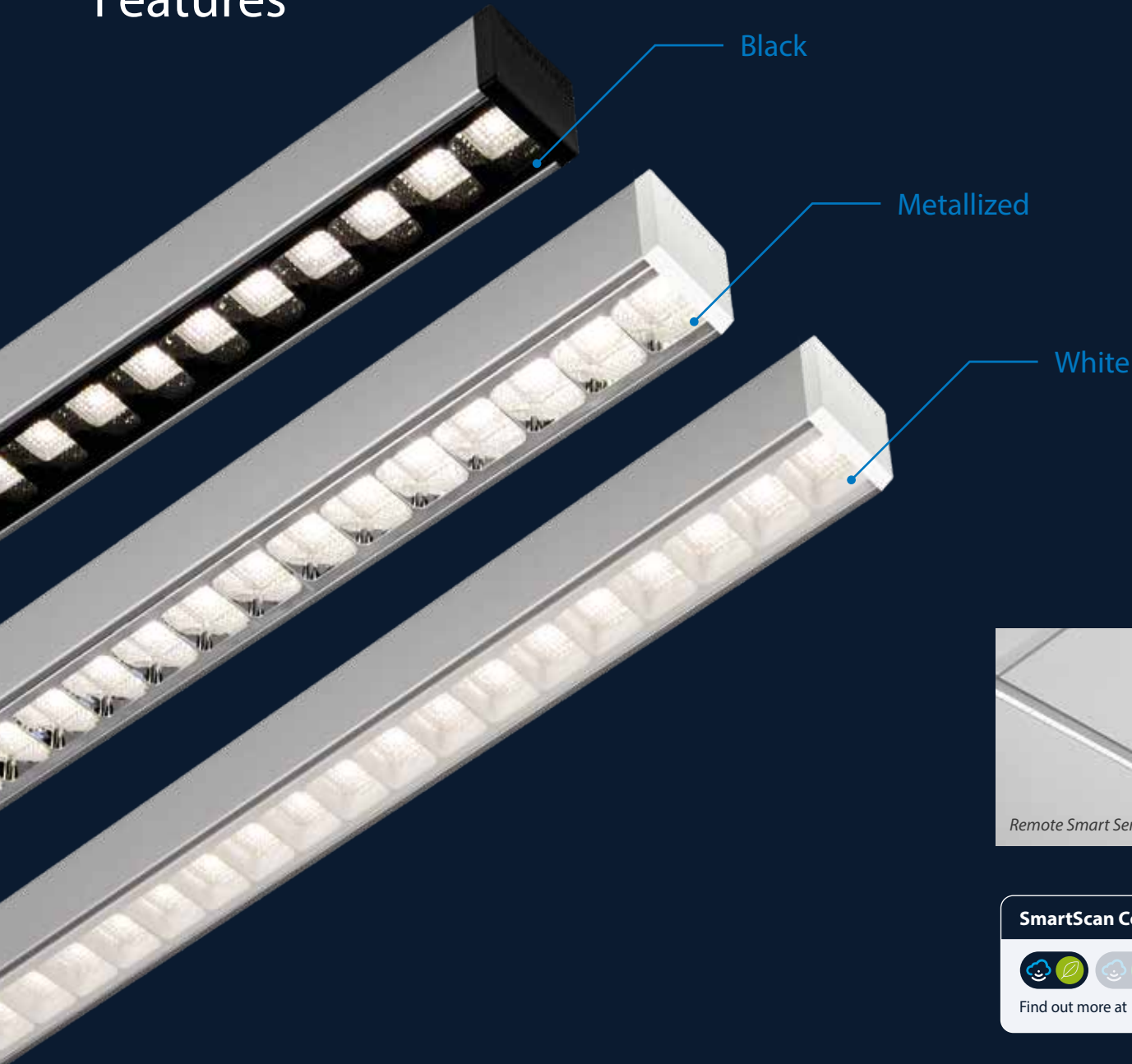**SmartScan Configurations**

Find out more at **www.thorlux.com/smartscan**

EXTREMELY NARROW PROFILE LINEAR LUMINAIRES

IP20 **LED**

SPECIFICATION

- Extruded low-profile anodized aluminum body
- Designed specifically for mounting to an exposed T-bar ceiling
- Custom optical system combining a reflector, collimator and nanoprism lens for each LED
- Black 'invisible' light source, metallized low glare or white reflector options
- Wattage selectable during installation, see range table for options and lumen output
- Fast installation
- Provides design flexibility, no longer restricted by traditional luminaire spacings
- Pluggable power pack with flat ribbon cable, no need to cut ceiling tiles
- Fitted with 4000K LEDs

LED CHARACTERISTICS

CRI	80+
COLOR TEMPERATURE	4000K
RATED LIFE (HOURS)	100K - L80/B10
DRIVER EFFICIENCY	>80%
REPLACEABLE	NO
POWER FACTOR	>0.95
LL/CW	130.0

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

Thorlux Lighting

![Flexline] **Flexline**

Configurator

![Flexline] **Flexline**

	EMERGENCY TYPE ◆	PRODUCT CODE	SIZE	VARIANT	REFLECTOR	CONTROL TYPE
Single	W T E	FL	0018 0024 0036 0048	S	B M W	S D A L
Twin	W T E	FL	0018 0024 0036 0048	T	B M W	S D A L
Corner	W T E	FL	1818 2424	C	B M W	S D A L
Square	W T E	FL	1818 2424	Q	B M W	S D A L
Rectangle	W T E	FL	2412	Q	B M W	S D A L
Ex: FL0048TBS		FL	0048	T	B	S
	Non-Emergency	Flexline	15.8'	Twin	Black	SmartScan

EMERGENCY TYPE

W - SmartScan ***** (+0.66 lbs)
T - AutoTest ****** (+0.66 lbs)
E - Emergency ****** (+0.66 lbs)

◆ Leave blank if emergency is not required

* **Only** available with **'S'** Control Type *****

* **Not** available with **'S'** Control Type

SIZE

0018 - 5.91'
0024 - 7.87'
0036 - 11.81'
0048 - 15.75'
1818 - 5.91' x 5.91'
2424 - 7.87' x 7.87'
2412 - 7.87' x 3.94'

VARIANT

S - Single
T - Twin
C - Corner
Q - Quad

REFLECTOR

B - Black
M - Metallized
W - White

CONTROL TYPE

S - SmartScan (+0.22 lbs)
D - Smart (+0.22 lbs)
A - Dimming (DALI) *******
L - Non-dimming

*** Retractive switch dimming **not** available

For wattages and lumen outputs
see pages 24-25

![Flexline] **Flexview**

![Thorlux Lighting logo] **Thorlux Lighting**

Flexline

Technical Data

Flexline	LED WATTAGE		BLACK LUMEN OUTPUT		METALLISED LUMEN OUTPUT		WHITE LUMEN OUTPUT		APPROX. lbs
	PER KIT	PER METER	PER KIT	PER METER	PER KIT	PER METER	PER KIT	PER METER	
Single - 5.9' (1.8 m)	12	6.00	1245	692	1740	967	1680	933	2.2
	13	7.50	1335	742	1865	1036	1800	1000	
	15	8.50	1530	850	2135	1186	2060	1144	
	18	10.00	1815	1008	2535	1408	2445	1358	
Single - 7.9' (2.4 m)	14	6.00	1455	606	2030	846	1960	817	2.9
	18	7.50	1850	771	2585	1077	2495	1040	
	21	8.50	2140	892	2985	1244	2880	1200	
	24	10.00	2420	1008	3380	1408	3260	1358	
Single - 11.8' (3.6m)	21	6.00	2180	606	3045	846	2940	817	4.4
	27	7.50	2775	771	3880	1078	3740	1039	
	32	8.50	3260	906	4550	1264	4390	1219	
	36	10.00	3630	1008	5070	1408	4890	1358	
Single - 15.8' (4.8m)	28	6.00	2910	606	4060	846	3915	816	6.0
	36	7.50	3705	772	5170	1077	4990	1040	
	42	8.50	4275	891	5975	1245	5760	1200	
	49	10.00	4940	1029	6900	1438	6655	1386	
Twin - 5.9' (1.8m)	14	4.00	1455	404	2030	564	1960	544	4.4
	22	6.00	2265	629	3160	878	3050	847	
	27	7.50	2750	764	3840	1067	3705	1029	
	31	8.50	3125	868	4365	1213	4210	1169	
Twin - 7.9' (2.4m)	19	4.00	1975	411	2755	574	2660	554	6.0
	28	6.00	2880	600	4020	838	3880	808	
	36	7.50	3665	764	5120	1067	4940	1029	
	41	8.50	4135	861	5775	1203	5570	1160	
Twin - 11.8' (3.6m)	28	4.00	2910	404	4060	564	3915	544	8.8
	42	6.00	4320	600	6035	838	5820	808	
	54	7.50	5500	764	7680	1067	7410	1029	
	61	8.50	6150	854	8590	1193	8285	1151	
Twin - 15.8' (4.8m)	39	4.00	4050	422	5655	589	5455	568	11.7
	56	6.00	5760	600	8045	838	7760	808	
	72	7.50	7335	764	10240	1067	9880	1029	
	82	8.50	8270	861	11550	1203	11140	1160	

Thorlux Lighting

Flexline

Technical Data

	LED WATTAGE		BLACK LUMEN OUTPUT		METALLIZED LUMEN OUTPUT		WHITE LUMEN OUTPUT		APPROX. lbs
	PER KIT	PER METER	PER KIT	PER METER	PER KIT	PER METER	PER KIT	PER METER	
Corner - 5.9' (1.8m)	21	6.00	2180	606	3045	846	2940	817	4.4
	27	7.50	2775	771	3880	1078	3740	1039	
	32	8.50	3260	906	4550	1264	4390	1219	
	36	10.00	3630	1008	5070	1408	4890	1358	
Corner - 7.9' (2.4m)	28	6.00	2910	606	4060	846	3915	816	6.0
	36	7.50	3705	772	5170	1077	4990	1040	
	41	8.50	4175	870	5830	1215	5625	1172	
	48	10.00	4840	1008	6760	1408	6520	1358	
Square - 5.9' (1.8m)	29	4.00	3010	418	4205	584	4055	563	8.8
	42	6.00	4320	600	6035	838	5820	808	
	54	7.50	5500	764	7680	1067	7410	1029	
	61	8.50	6150	854	8590	1193	8285	1151	
Square - 7.9' (2.4m)	39	4.00	4050	422	5655	589	5455	568	11.7
	56	6.00	5760	600	8045	838	7760	808	
	72	7.50	7335	764	10240	1067	9880	1029	
	82	8.50	8270	861	11550	1203	11140	1160	
Rectangle - 7.9' (2.4m) x 4.0' (1.2m)	29	4.00	3010	418	4205	584	4055	563	8.8
	42	6.00	4320	600	6035	838	5820	808	
	54	7.50	5500	764	7680	1067	7410	1029	
	61	8.50	6150	854	8590	1193	8285	1151	

NOTE: Remote gear box weight - 5.1 lbs

Thorlux Lighting

⊡ Flex**line**
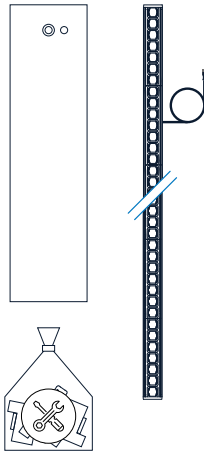
What's in the Box?

Flexline luminaires are supplied as a kit of parts with everything you need to install the luminaire.

EXAMPLE

⊡ Flex**line**
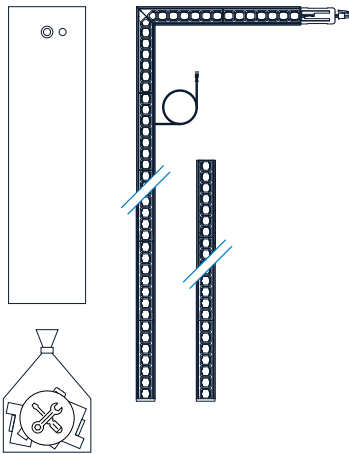### Single - 5.9' (1.8m)

1x 5.91'(1800mm) straight with input power cable
1x Remote gear box
1x Installation kit
    1x Joining spring
    3x T-bar connection springs
    1x Adhesive pad
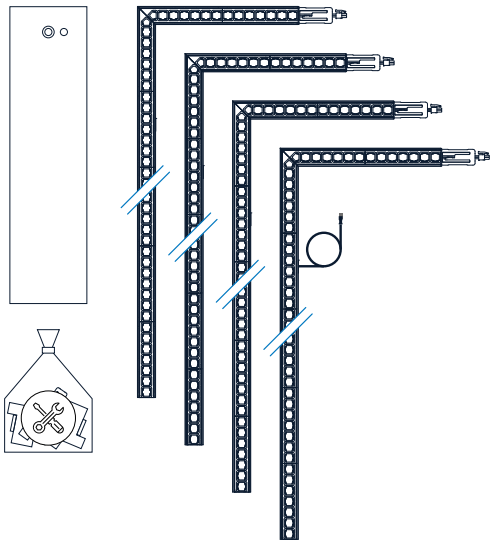
EXAMPLE

⊡ Flex**line**
Corner - 5.9' (1.8m)

1x 5.91' (1800mm) corner with input power cable
1x 5.25' (1600mm) straight
1x Remote gear box
1x Installation kit
    1x Joining spring
    7x T-bar connection springs
    1x Adhesive pad

EXAMPLE

⊡ Flex**line**
Square - 1.8m

1x 5.25' (1600mm) corner with input power cable
3x 5.25' (1600mm) corner
1x Remote gear box
1x Installation kit
    16x T-bar connection springs
    1x Adhesive pad
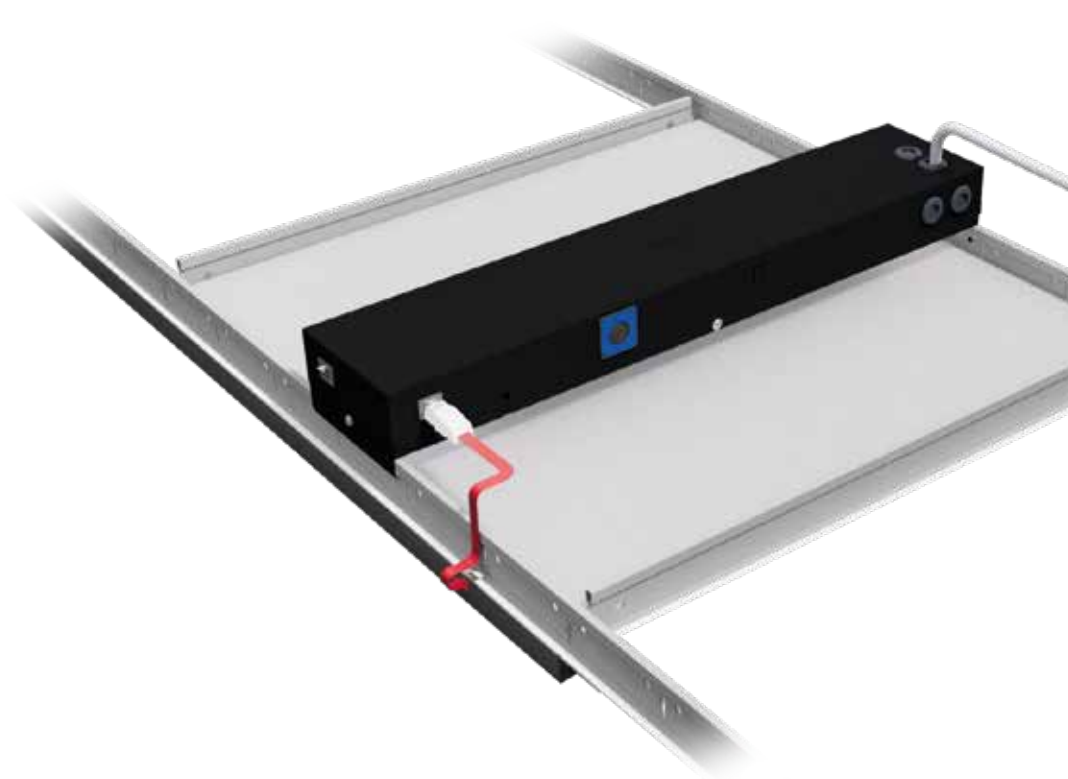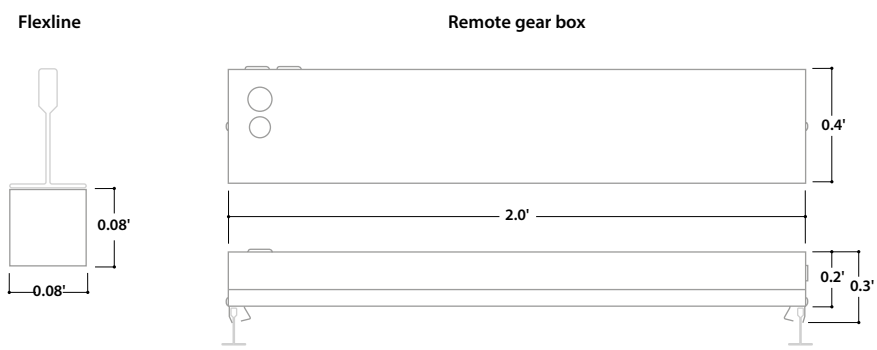
TL **Thorlux Lighting**

⊡ **Flex**line

Technical Data

DIMENSIONS

Flexline

Remote gear box

0.4'

2.0'

0.08'

0.08'

0.2' 0.3'

PHOTOMETRIC GUIDE

TRANSVERSE — AXIAL
150
300
450
600
CANDELAS PER 1000 LUMENS

BLACK

TRANSVERSE — AXIAL
150
300
450
600
CANDELAS PER 1000 LUMENS

METALLIZED

TRANSVERSE — AXIAL
150
300
450
600
CANDELAS PER 1000 LUMENS

WHITE

For lumen outputs see pages 24-25

TL Thorlux Lighting
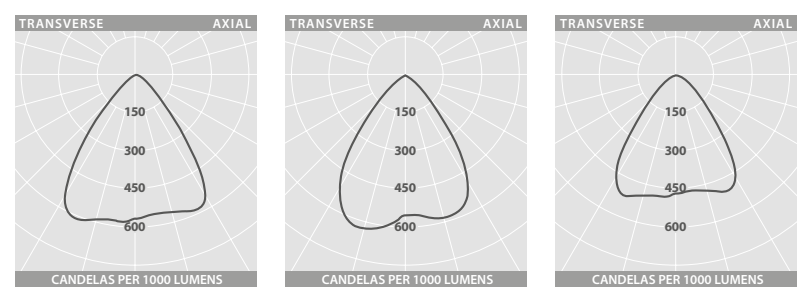
Introduction

▦ **Flex**view

Bring a Touch of the Outside Inside

Flexview uses the same optical elements as Flexline around the perimeter of its picture window to provide high quality general illumination whilst separate edge-lit technology provides dedicated picture illumination.

Flexview allows creativity with the lighting layout, enhancing the look and feel of the space.

TL **Thorlux Lighting**

■■■ Flex**view**

Kits

One

Four

Six

Eight

Sixteen

■■■ Flexview

TL Thorlux Lighting
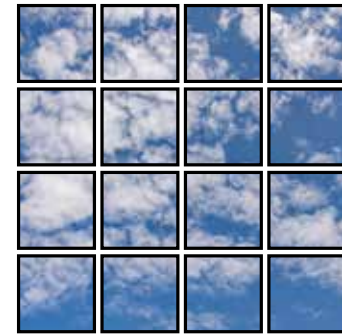
Construction

Gear Compartment

Hinges for easy access/wiring.
Zinc plated steel powder coated black.

Aluminum Body

Lightweight construction

Light Guide

Focuses light through the picture panel

Picture Panel

0.06" polycarbonate TP(a) rated
fire-retardant panel

Extruded Aluminium Profile

Anodised finish

Perimeter Optical Assembly

Uses the same optical design as Flexline.
Only the perimeter of the array is lit on all
Flexview kits.

TL **Thorlux Lighting**

Dual Light Engine

The perimeter light engine provides the general illumination and can dim to suit conditions. The picture window remains at a constant brightness whilst the luminaire is turned on. The combination of two light engines provides excellent colour quality, correct control and superb overall efficiency.
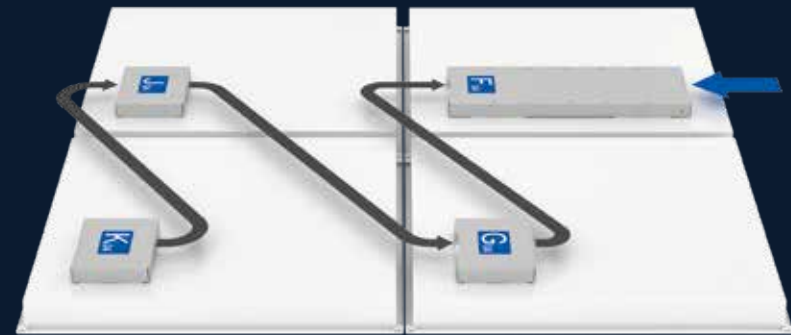
Single Power Connection

A single control gear enclosure controls the dual light source system; there is only one power connection for Flexview regardless of the size of its array. Each panel has a pre-wired lead for error-free installation.

Tool Free Installation

Flexview luminaires simply lay in to an exposed T-bar grid making installation easy and quick.
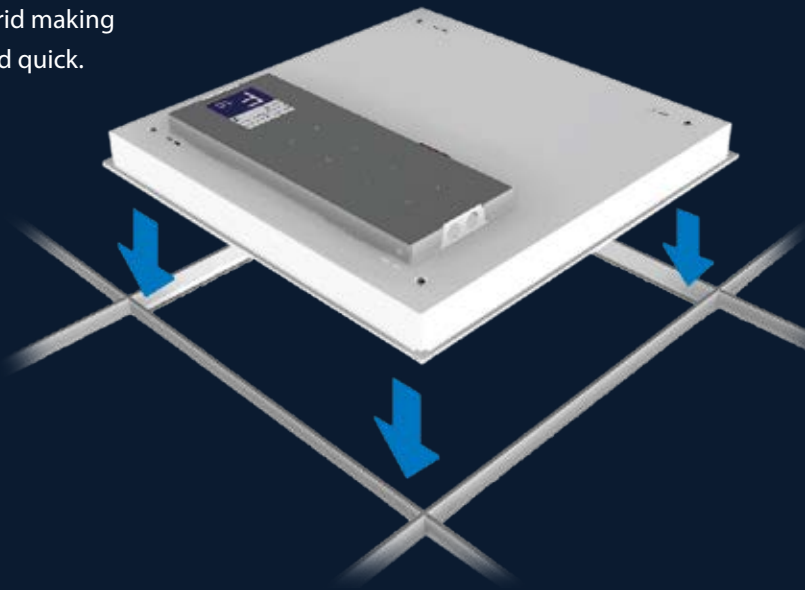
Integral Smart Sensor

Smart versions include a sensor discretely mounted within the frame. One sensor per Flexview kit.

TL Thorlux Lighting

Flexview

Features

80+

IP20 **TP(a)** **LED**

SPECIFICATION

- Strong extruded anodised aluminum frame
- Dual light engine design, perimeter light engine for main illumination and secondary light engine for the picture window
- Custom optical system combining a reflector, collimator and nanoprism lens for each LED
- Black 'invisible' light source, metalli zed low glare or white reflector options
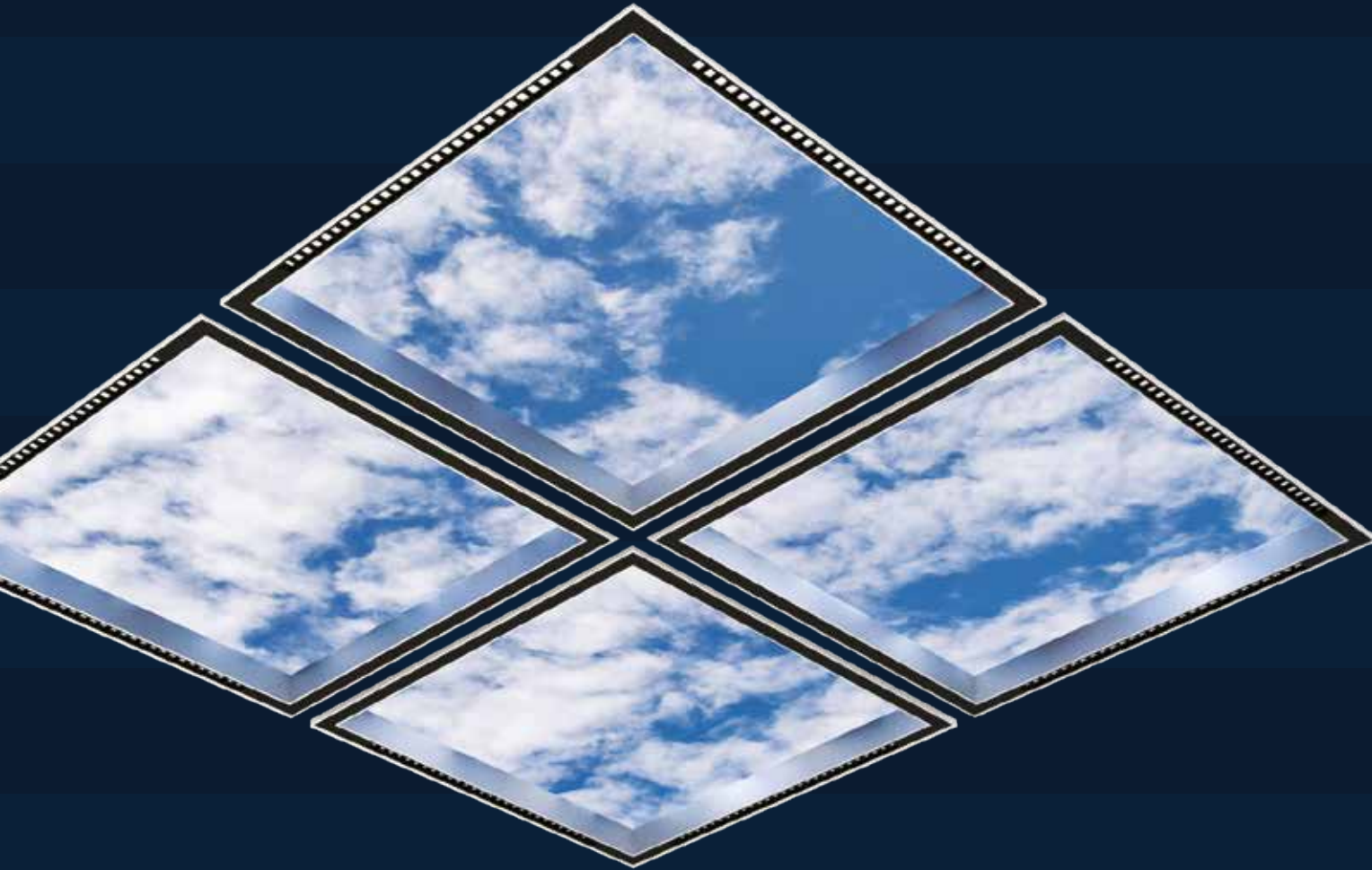- Wattage selectable during installation, see range table for options and lumen output
- Edge-lit panel remains at constant brightness (does not dim)
- Image screen printed onto 0.06" polycarbonate TP(a) rated fire-retardant panel
- Multiple kit options available, all with the primary light engine only around the perimeter of the array
- Fitted with 4000K LEDs

SmartScan Configurations

Find out more at **www.thorlux.com/smartscan**

LED CHARACTERISTICS

CRI	**80+**
COLOUR TEMPERATURE	**4000K**
RATED LIFE (HOURS)	**100K - L80/B10**
DRIVER EFFICIENCY	**>80%**
REPLACEABLE	**NO**
POWER FACTOR	**>0.95**
LL/CW	**106.0**

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

TL **Thorlux Lighting**

▦ **Flex**view

Configurator

▦ **Flex**view

	EMERGENCY TYPE ◆	PRODUCT RANGE	SIZE	VARIANT	REFLECTOR	CONTROL TYPE
One	W T E	FV	0606	S	B M W	S D A L
Four	W T E	FV	1212	S	B M W	S D A L
Six	W T E	FV	1812	S	B M W	S D A L
Eight	W T E	FV	1224	S	B M W	S D A L
Sixteen	W T E	FV	2424	S	B M W	S D A L
Ex: WFV1812SMS	W SmartScan	FV Flexview	1812 5.91' x 3.94' (six)	S Sky	M Metallized	S SmartScan

EMERGENCY TYPE

W - SmartScan *****   (+0.66 lbs)
T - AutoTest ******   (+0.66 lbs)
E - Emergency ******   (+0.66 lbs)

◆   Leave blank if emergency is not required

* **Only** available with **'S'** Control Type ****** **Not** available with **'S'** Control Type

SIZE

0606 - 1.97' x 1.97'
1212 - 3.94' x 3.94'
1812 - 5.91' x 3.94'
1224 - 3.94' x 7.87'
2424 - 7.87' x 7.87'

VARIANT

S - Sky

REFLECTOR

B - Black
M - Metallised
W - White

CONTROL TYPE

S - SmartScan   (+0.22 lbs)
D - Smart   (+0.22 lbs)
A - Dimming (DALI) *******
L - Non-dimming

*** Retractive switch dimming **not** available

For wattages and lumen outputs
see pages 35

▦ Thorlux Lighting
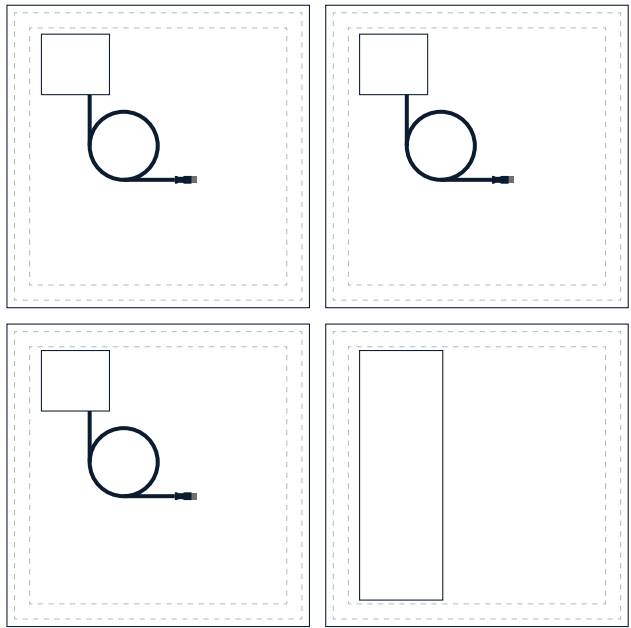
⊞ Flex**view**

What's in the Box?

Flexview luminaires are supplied as a kit of parts with everything you need to install the luminaire.
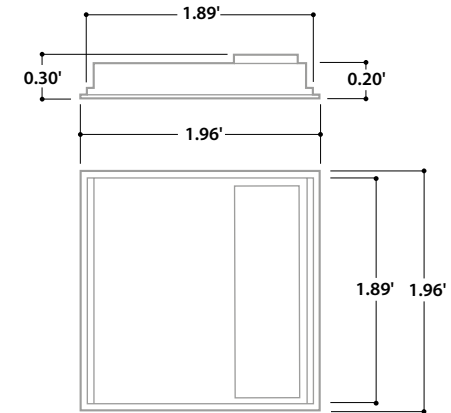
EXAMPLE

⊞ Flex**view** Four

1x   Master panel
Including control gear enclosure from which all luminaires within the array are powered.

3x   Slave panels
Includes pre-wired lead for modular wiring.

DIMENSIONS

1.89'
0.30'   0.20'
1.96'
1.89'   1.96'

Per Flexview module

NOTE: Suitable for exposed T-Bar lay-in ceilings only

PHOTOMETRIC GUIDE

TRANSVERSE	AXIAL
150	
300	
450	
600	

CANDELAS PER 1000 LUMENS

BLACK

TRANSVERSE	AXIAL
150	
300	
450	
600	

CANDELAS PER 1000 LUMENS

METALLIZED

TRANSVERSE	AXIAL
150	
300	
450	
600	

CANDELAS PER 1000 LUMENS

WHITE

For lumen outputs see page 35

TL **Thorlux Lighting**

▦ **Flex**view

Technical Data

▦ **Flex**view

	LED WATTAGE	BLACK LUMEN OUTPUT	METALLIZED LUMEN OUTPUT	WHITE LUMEN OUTPUT	APPROX.
	PER KIT	PER KIT	PER KIT	PER KIT	lbs
One	20	1630	2195	2125	
	26	2200	2995	2895	9.9
	34	2945	4030	3895	
	40	3460	4755	4590	
Four	37	2275	2850	2780	
	41	2670	3405	3315	39.7
	47	3265	4235	4115	
	50	3545	4625	4490	
Six	52	2995	3695	3610	
	58	3595	4535	4415	59.5
	65	4285	5495	5345	
	69	4660	6020	5850	
Eight	67	3820	4685	4580	
	74	4520	5660	5520	79.4
	82	5305	6760	6580	
	87	5775	7415	7210	
Sixteen	121	6190	7340	7195	
	130	7085	8595	8405	158.7
	141	8170	10110	9865	
	148	8825	11025	10750	

TL Thorlux Lighting