



Flex System

RETHINK THE POSSIBILITIES

THE FLEX SYSTEM

REVOLUTIONISES

THE WAY YOU

LIGHT A SPACE









BREAK AWAY FROM
CONVENTION

CREATE

INSPIRATIONAL

SPACES







INTRODUCING THE



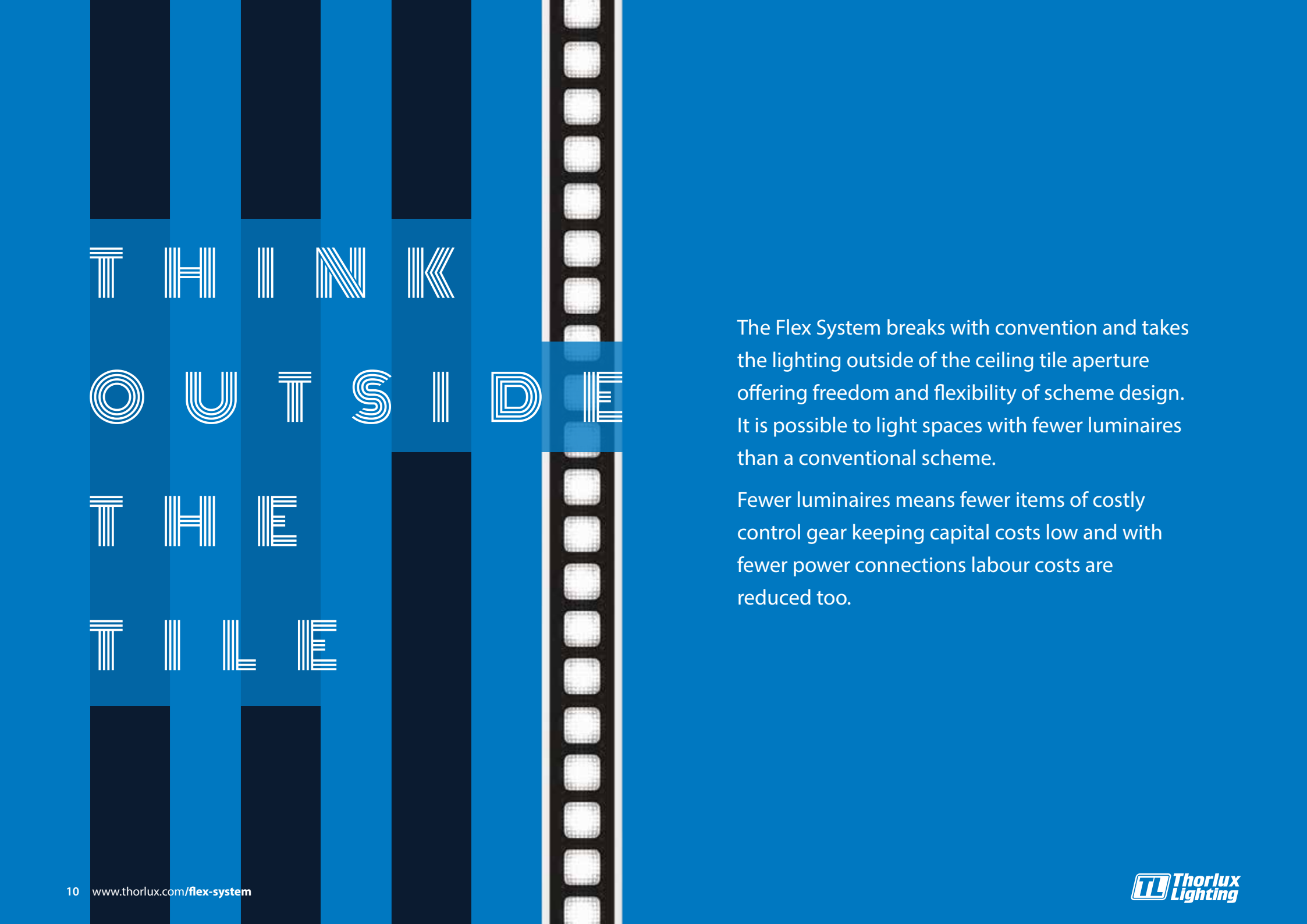
Flex System



Flexview



Flexline

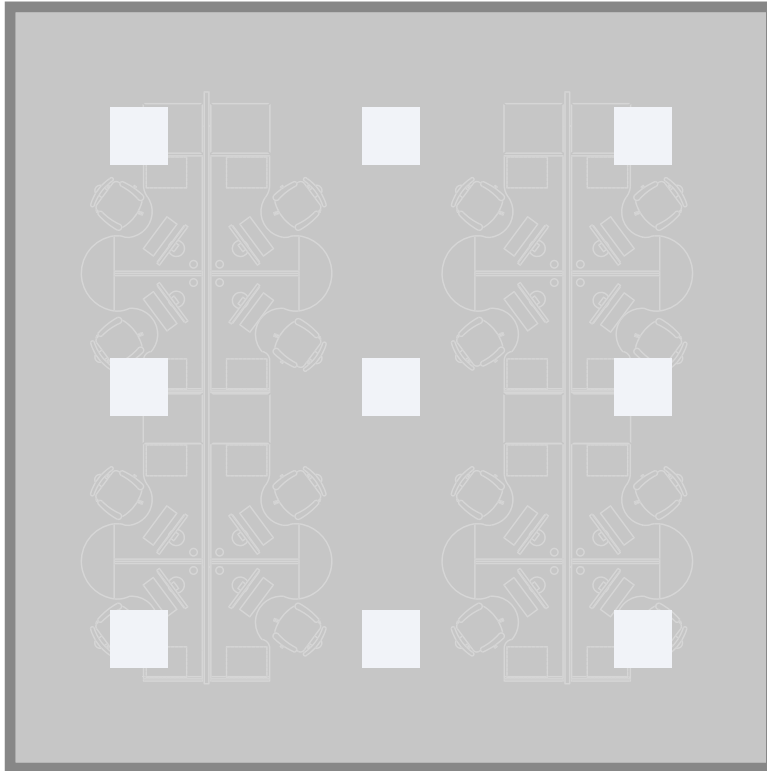


THINK
OUTSIDE
THE
TILE

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.

Conventional



9

Luminaires

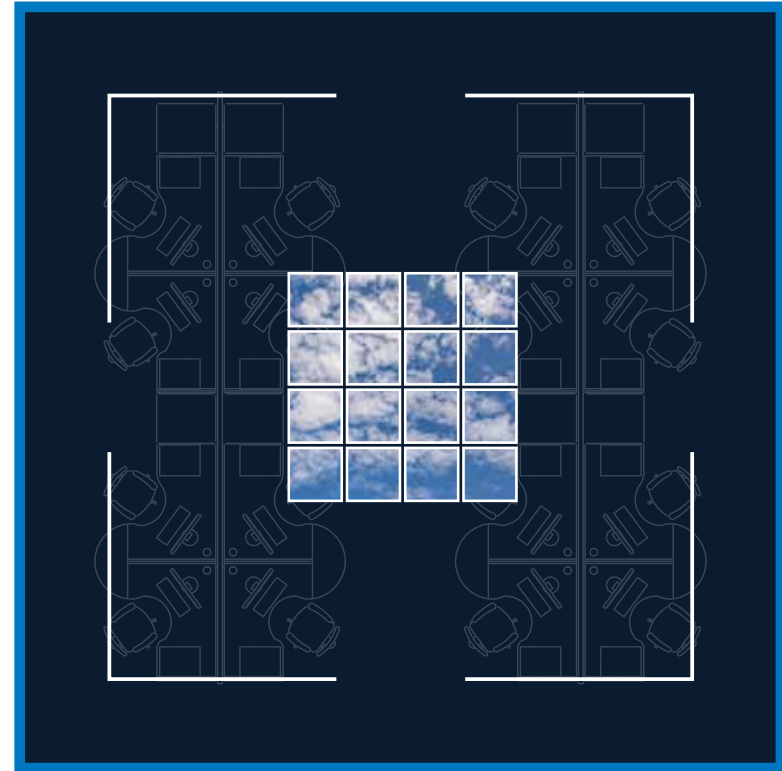
9

Sets of control gear

9

Power connections

Flex System



5

Luminaire kits

 Flexline
4x Corner - 2.4m

 Flexview
1x Sixteen

5

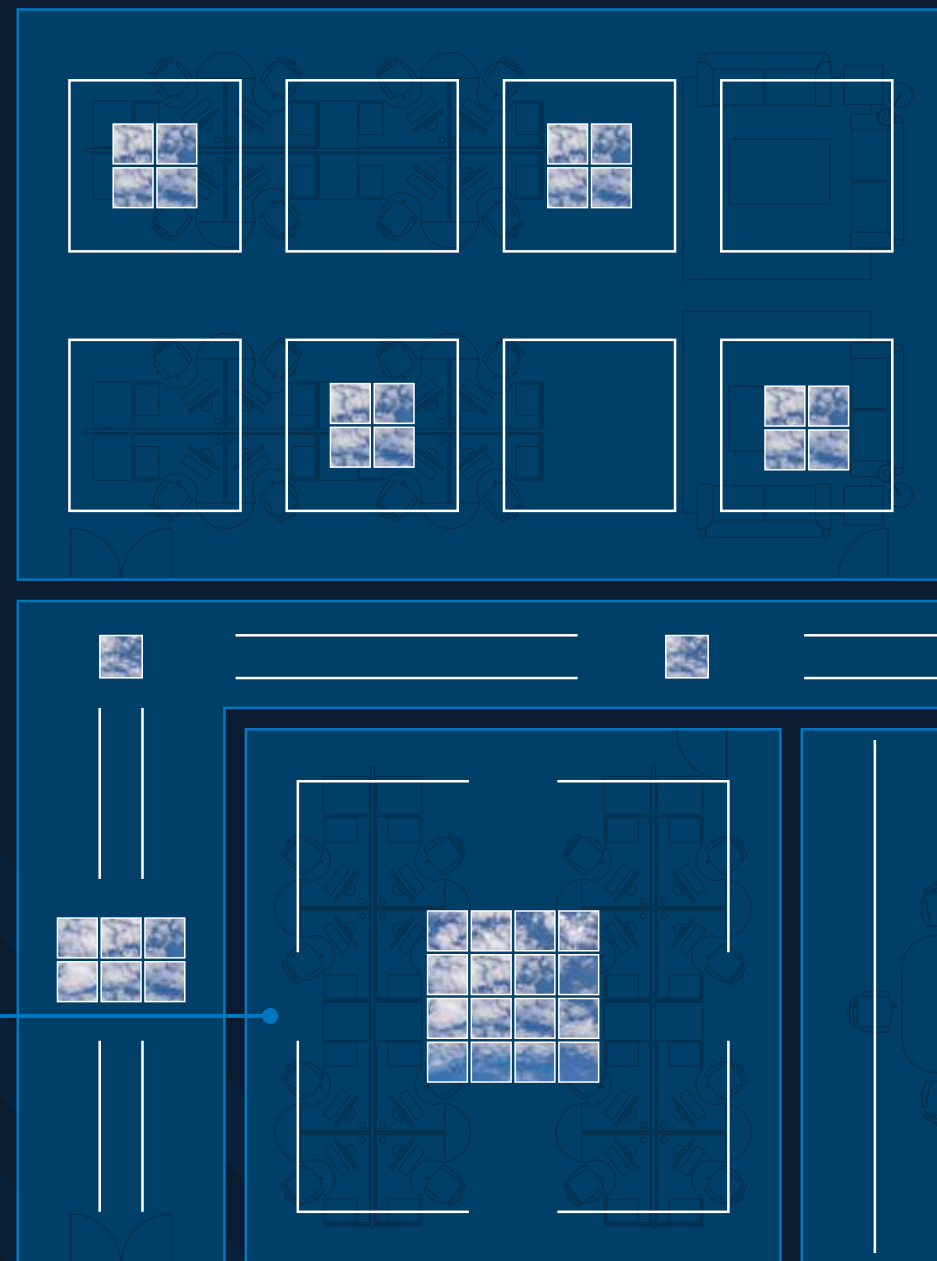
Sets of control gear

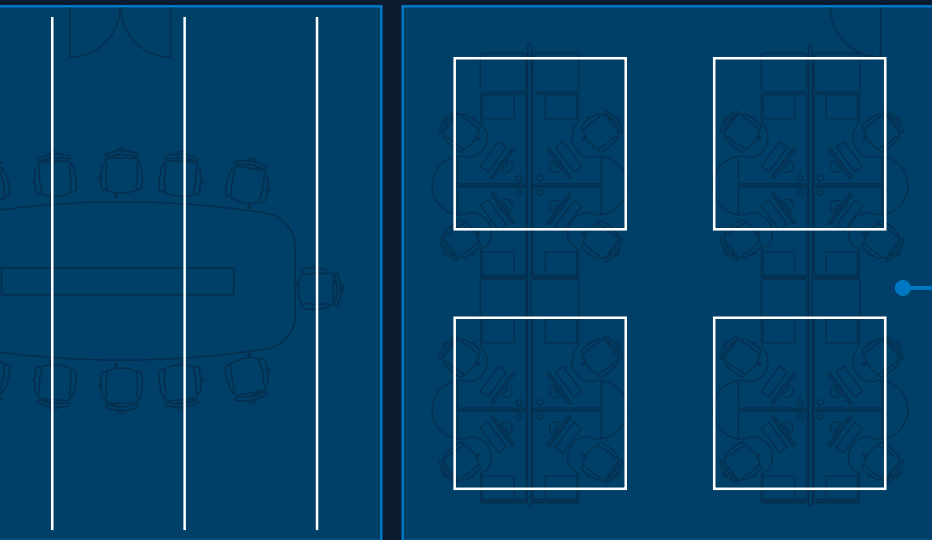
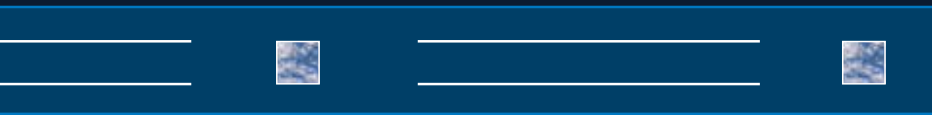
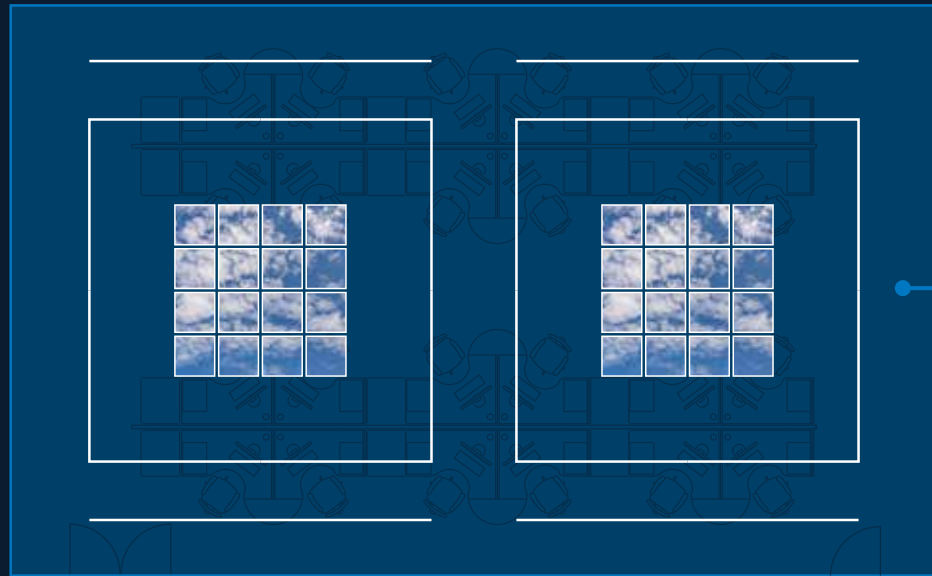
5

Power connections

BE CREATIVE WITH YOUR SPACE

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







T A K E

C O N T R O L

O F G L A R E

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



Metallised

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

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.



C U S T O M I S E ,
C O N T R O L &
C O N N E C T

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/smartsan





Flexline

Introduction

Flexline

Think Outside the Tile

The super narrow 24mm 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



Single
1.8m



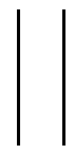
Single
2.4m



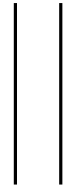
Single
3.6m



Single
4.8m



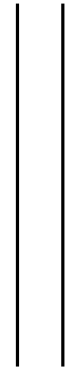
Twin
1.8m



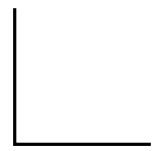
Twin
2.4m



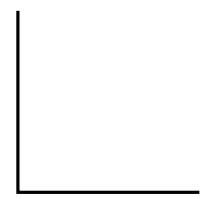
Twin
3.6m



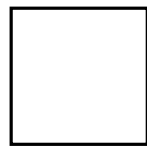
Twin
4.8m



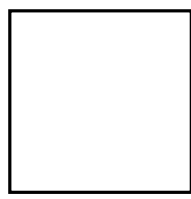
Corner
1.8m



Corner
2.4m



Square
1.8m



Square
2.4m



Rectangle
2.4 x 1.2m

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 Aluminium Profile

Anodised finish

LED PCB

Populated with high efficiency, medium power LEDs

Optical Assembly

Patented nanoprism optics for high performance and broad distribution

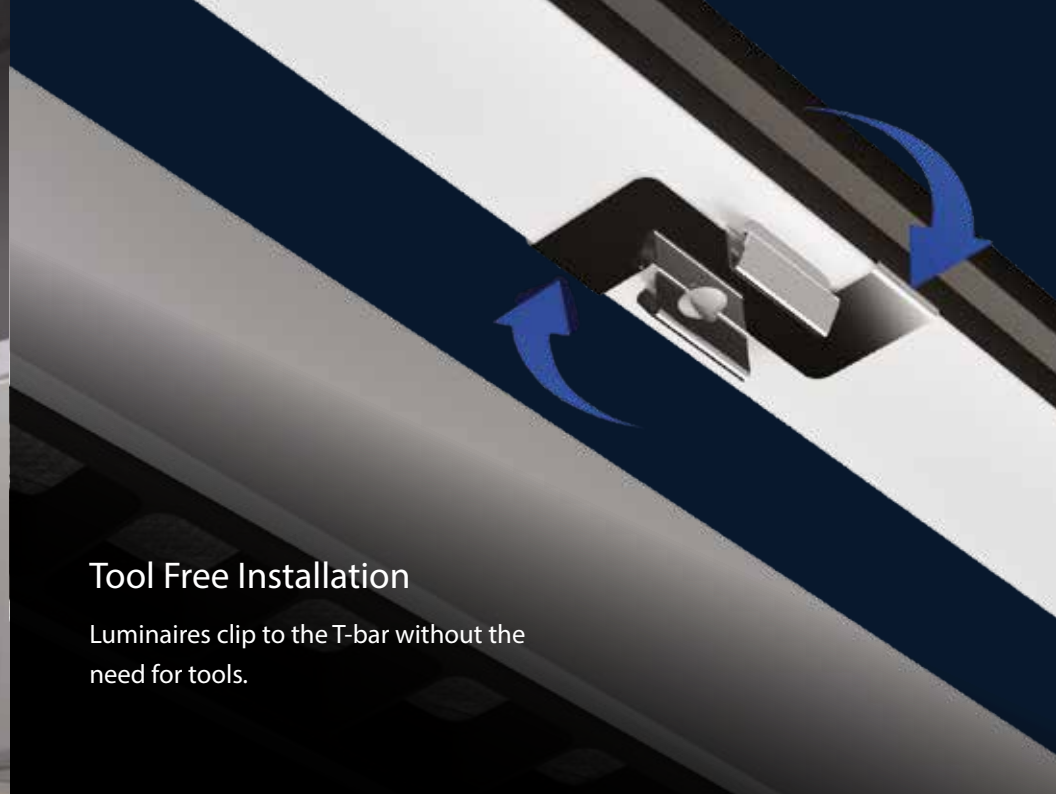
Louvre

Glare controlling louvre with black, metallised and white options



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.



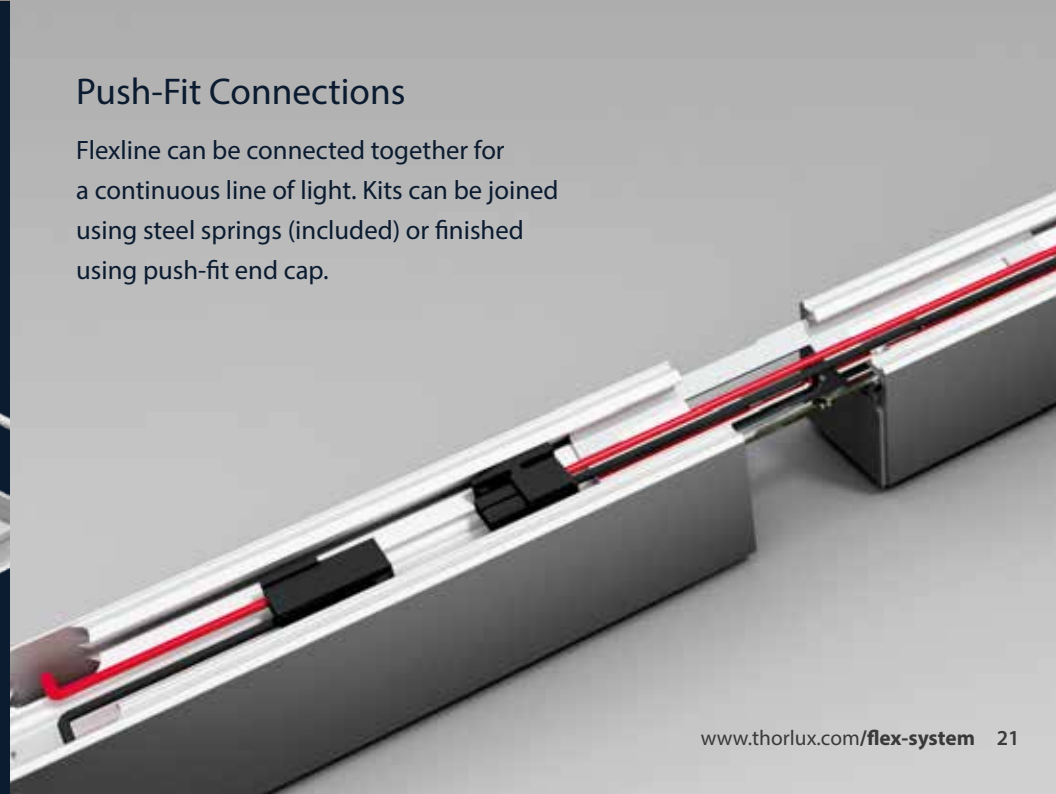
Tool Free Installation

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



Remote Gear Unit

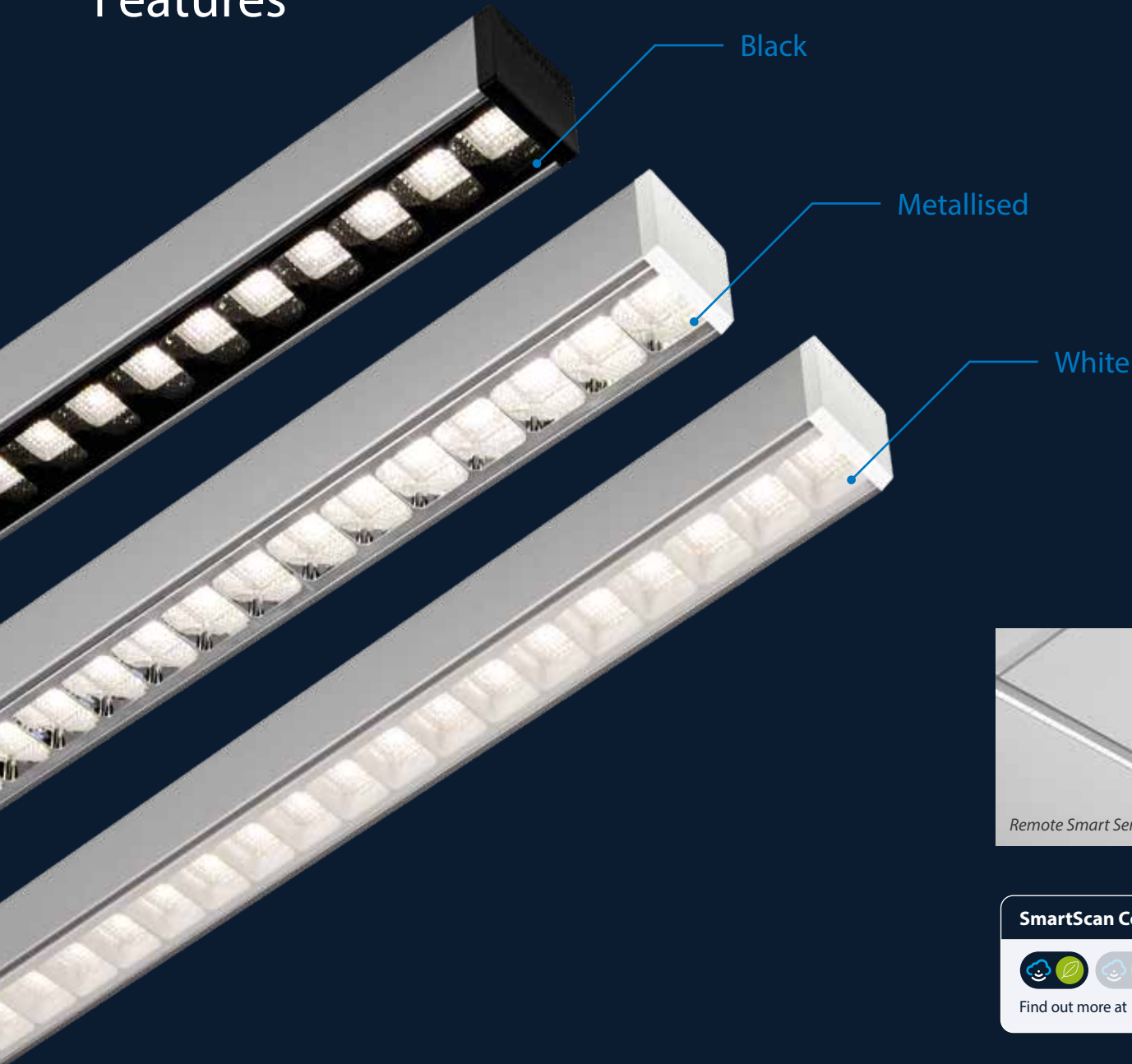
Control gear is contained within a metal flame retardant enclosure located above a ceiling tile and firmly clipped to the grid.



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.

Flexline Features

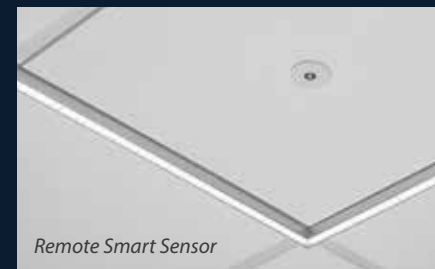


EXTREMELY NARROW PROFILE LINEAR LUMINAIRES



SPECIFICATION

- Extruded low-profile anodised aluminium 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, metallised 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



Remote Smart Sensor

SmartScan Configurations



Find out more at www.thorlux.com/smartsan

LED CHARACTERISTICS

CRI	80+
COLOUR 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

Flexline Configurator



	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
E.g. FL0048TBS	Non-Emergency	Flexline	4.8m	Twin	Black	SmartScan

EMERGENCY TYPE

W - SmartScan * (+0.3kg)
 T - AutoTest ** (+0.3kg)
 E - Emergency ** (+0.3kg)

◆ Leave blank if emergency is not required

* Only available with 'S' Control Type

** Not available with 'S' Control Type

SIZE

0018 - 1.8m
 0024 - 2.4m
 0036 - 3.6m
 0048 - 4.8m
 1818 - 1.8 x 1.8m
 2424 - 2.4 x 2.4m
 2412 - 2.4 x 1.2m

VARIANT

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

REFLECTOR

B - Black
 M - Metallised
 W - White

CONTROL TYPE

S - SmartScan (+0.1kg)
 D - Smart (+0.1kg)
 A - Dimming (DALI) ***
 L - Non-dimming






*** Retractive switch dimming not available

For wattages and lumen outputs
 see pages 24-25

Technical Data

			BLACK		METALLISED		WHITE		APPROX. kg
	LED WATTAGE		LUMEN OUTPUT		LUMEN OUTPUT		LUMEN OUTPUT		
	PER KIT	PER METRE	PER KIT	PER METRE	PER KIT	PER METRE	PER KIT	PER METRE	
Single - 1.8m	12	6.00	1245	692	1740	967	1680	933	1.0
	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 - 2.4m	14	6.00	1455	606	2030	846	1960	817	1.3
	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 - 3.6m	21	6.00	2180	606	3045	846	2940	817	2.0
	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 - 4.8m	28	6.00	2910	606	4060	846	3915	816	2.7
	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 - 1.8m	14	4.00	1455	404	2030	564	1960	544	2.0
	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 - 2.4m	19	4.00	1975	411	2755	574	2660	554	2.7
	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 - 3.6m	28	4.00	2910	404	4060	564	3915	544	4.0
	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 - 4.8m	39	4.00	4050	422	5655	589	5455	568	5.3
	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	

Technical Data


			BLACK		METALLISED		WHITE		APPROX. kg
	LED WATTAGE		LUMEN OUTPUT		LUMEN OUTPUT		LUMEN OUTPUT		
	PER KIT	PER METRE	PER KIT	PER METRE	PER KIT	PER METRE	PER KIT	PER METRE	
Corner - 1.8m 	21	6.00	2180	606	3045	846	2940	817	2.0
	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 - 2.4m 	28	6.00	2910	606	4060	846	3915	816	2.7
	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 - 1.8m 	29	4.00	3010	418	4205	584	4055	563	4.0
	42	6.00	4320	600	6035	838	5820	808	
	54	7.50	5500	764	7680	1067	7410	1029	
Square - 2.4m 	61	8.50	6150	854	8590	1193	8285	1151	5.3
	39	4.00	4050	422	5655	589	5455	568	
	56	6.00	5760	600	8045	838	7760	808	
	72	7.50	7335	764	10240	1067	9880	1029	
Rectangle - 2.4 x 1.2m 	82	8.50	8270	861	11550	1203	11140	1160	4.0
	29	4.00	3010	418	4205	584	4055	563	
	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	

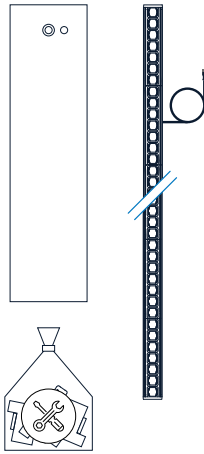
NOTE: Remote gear box weight - 2.3kg

What's in the Box?

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


EXAMPLE

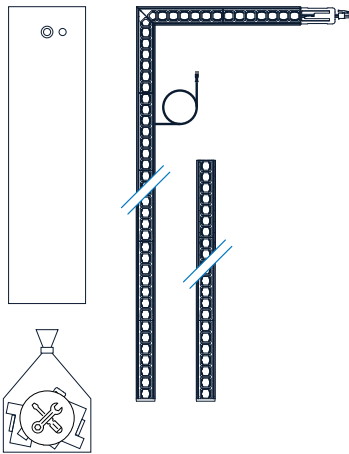
 Flexline
Single - 1.8m



- 1x 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

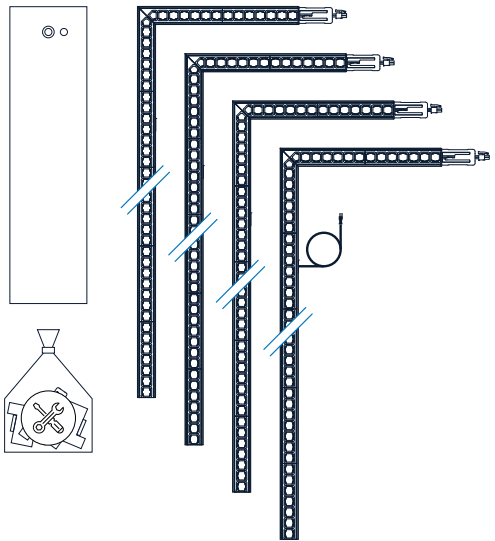
 Flexline
Corner - 1.8m



- 1x 1800mm corner with input power cable
- 1x 1600mm straight
- 1x Remote gear box
- 1x Installation kit
 - 1x Joining spring
 - 7x T-bar connection springs
 - 1x Adhesive pad

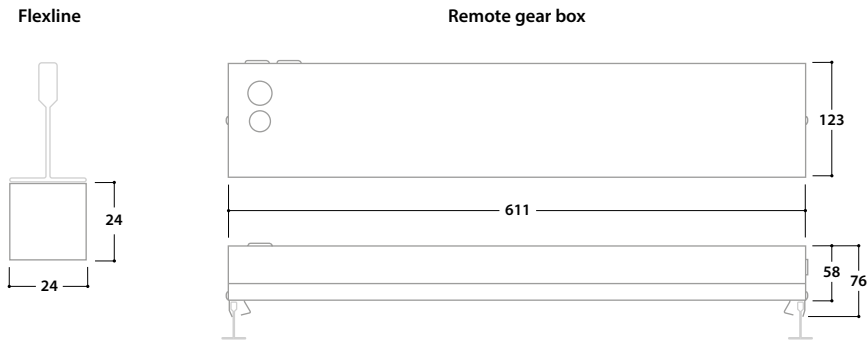
EXAMPLE

 Flexline
Square - 1.8m

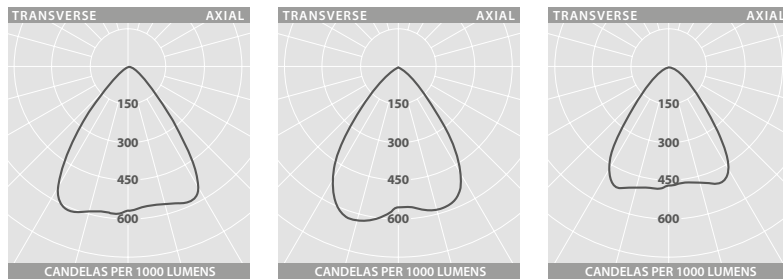


- 1x 1600mm corner with input power cable
- 3x 1600mm corner
- 1x Remote gear box
- 1x Installation kit
 - 16x T-bar connection springs
 - 1x Adhesive pad

DIMENSIONS



PHOTOMETRIC GUIDE



BLACK

METALLISED

WHITE

For lumen outputs see pages 24-25

Introduction



Flexview

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.



One



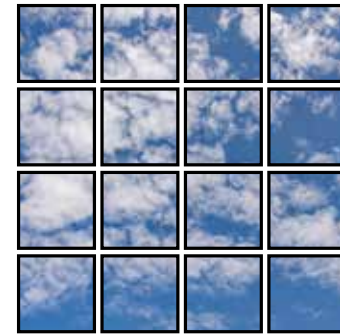
Four



Six



Eight



Sixteen

Construction



Gear Compartment

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

Aluminium Body

Lightweight construction

Light Guide

Focuses light through the picture panel

Picture Panel

1.5mm polycarbonate TP(a) rated
fire-retardant panel

Extruded Aluminium Profile

Anodised finish

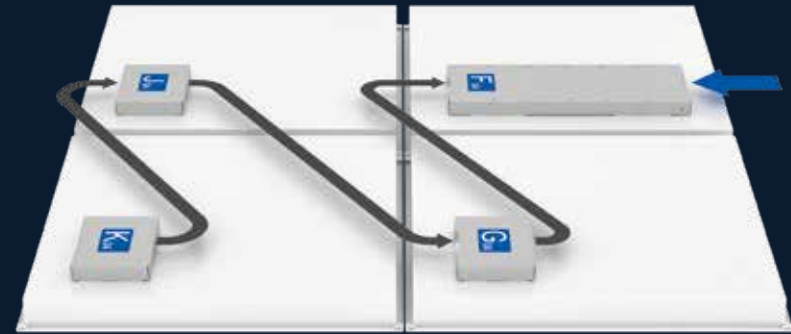
Perimeter Optical Assembly

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



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.

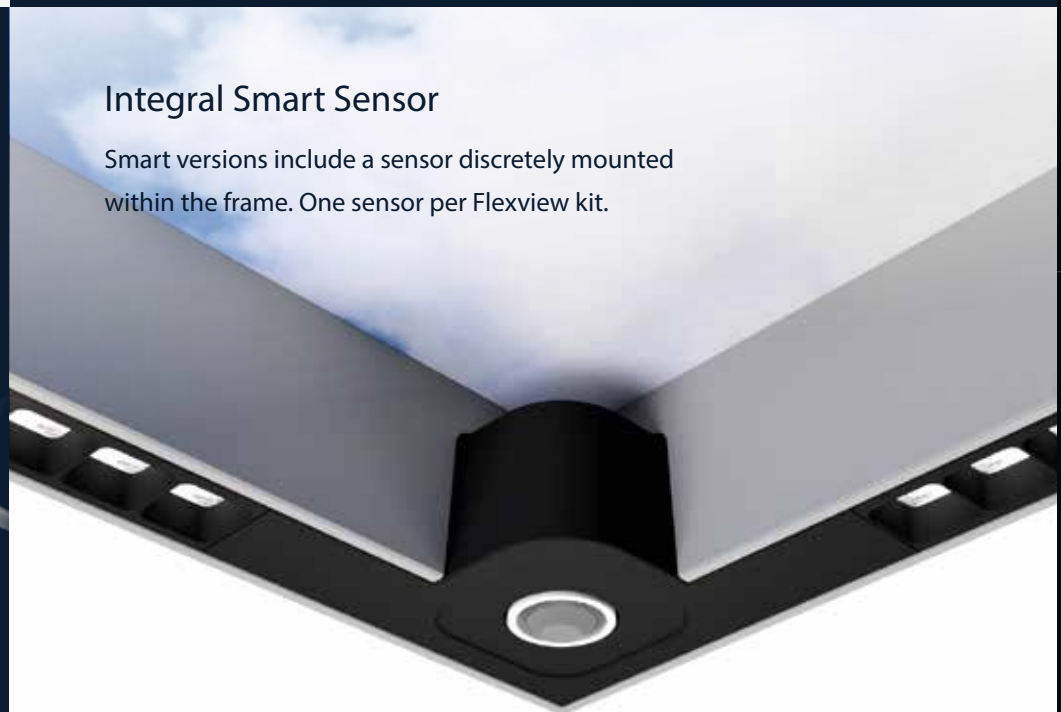
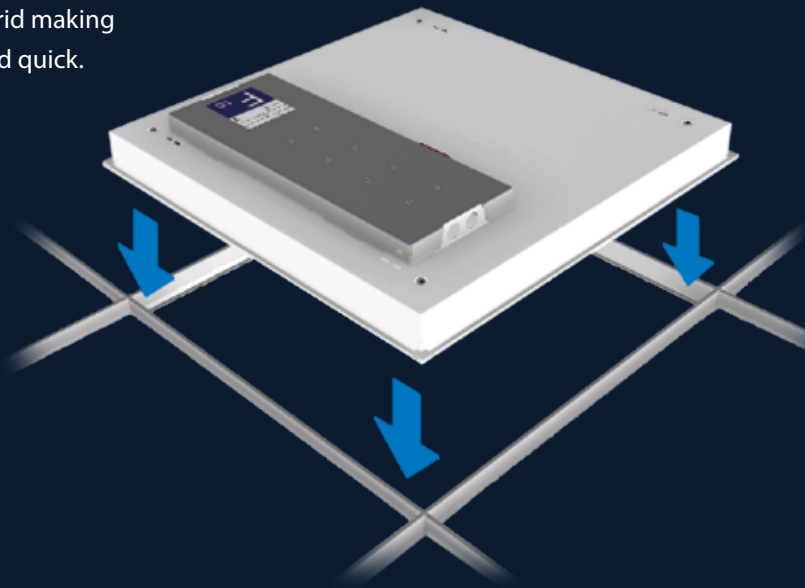


Single Power Connection

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

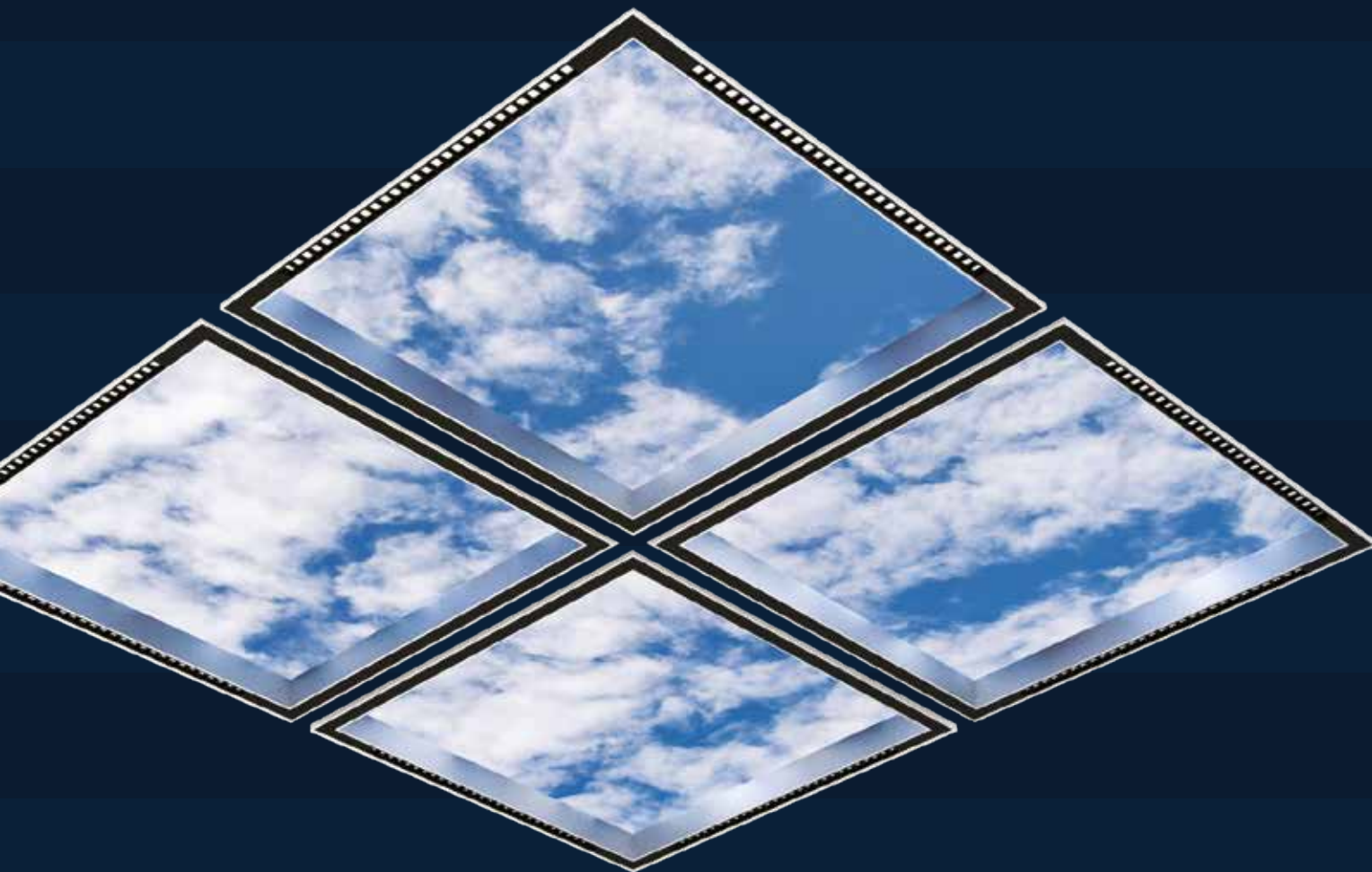
Flexview luminaires simply lay in to an exposed T-bar grid making installation easy and quick.



Integral Smart Sensor

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

Features



RECESSED PICTURE LUMINAIRE WITH DUAL LIGHT ENGINE



SPECIFICATION

- Strong extruded anodised aluminium 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, metallised 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 1.5mm 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

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

SmartScan Configurations



Find out more at www.thorlux.com/smartsan

	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
E.g. WFV1812SMS	W	FV	1812	S	M	S
	SmartScan	Flexview	1.8 x 1.2m (six)	Sky	Metallised	SmartScan

EMERGENCY TYPE

W - SmartScan * (+0.3kg)
T - AutoTest ** (+0.3kg)
E - Emergency ** (+0.3kg)

◆ Leave blank if emergency is not required

* Only available with 'S' Control Type

** Not available with 'S' Control Type

SIZE

0606 - 0.6 x 0.6m
1212 - 1.2 x 1.2m
1812 - 1.8 x 1.2m
1224 - 1.2 x 2.4m
2424 - 2.4 x 2.4m

VARIANT

S - Sky

REFLECTOR

B - Black
M - Metallised
W - White

CONTROL TYPE

S - SmartScan (+0.1kg)
D - Smart (+0.1kg)
A - Dimming (DALI) ***
L - Non-dimming


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

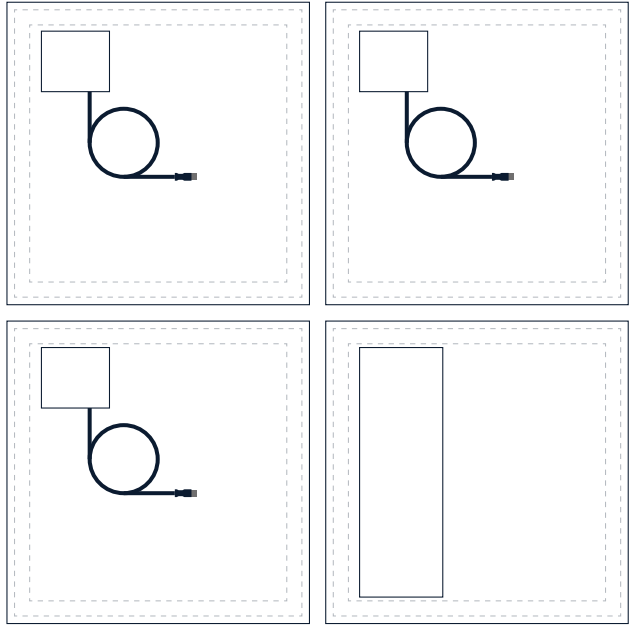
For wattages and lumen outputs see pages 35

What's in the Box?

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

EXAMPLE

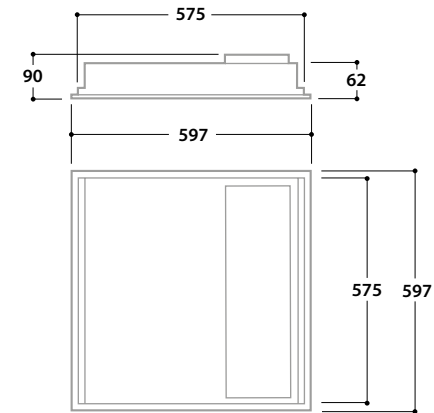
 Flexview Four



The diagram shows four rectangular panels arranged in a 2x2 grid. Each panel is enclosed in a dashed-line border. The top-left, top-right, and bottom-left panels each contain a square box in the top-left corner, connected by a line to a circular component with a lead extending from the right side. The bottom-right panel is empty, showing only the dashed-line border.

- 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.

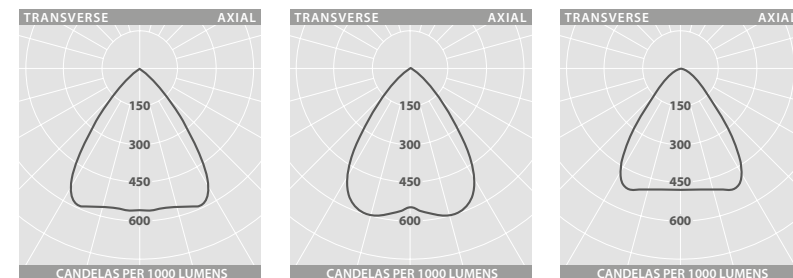
DIMENSIONS



Per Flexview module

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

PHOTOMETRIC GUIDE



BLACK

METALLISED

WHITE

For lumen outputs see page 35

Technical Data



					APPROX. kg
		BLACK	METALLISED	WHITE	
	LED WATTAGE PER KIT	LUMEN OUTPUT PER KIT	LUMEN OUTPUT PER KIT	LUMEN OUTPUT PER KIT	
One 	20	1630	2195	2125	4.5
	26	2200	2995	2895	
	34	2945	4030	3895	
	40	3460	4755	4590	
Four 	37	2275	2850	2780	18.0
	41	2670	3405	3315	
	47	3265	4235	4115	
	50	3545	4625	4490	
Six 	52	2995	3695	3610	27.0
	58	3595	4535	4415	
	65	4285	5495	5345	
	69	4660	6020	5850	
Eight 	67	3820	4685	4580	36.0
	74	4520	5660	5520	
	82	5305	6760	6580	
	87	5775	7415	7210	
Sixteen 	121	6190	7340	7195	72.0
	130	7085	8595	8405	
	141	8170	10110	9865	
	148	8825	11025	10750	



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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.

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