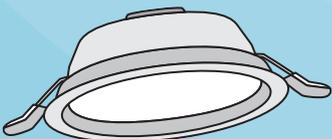
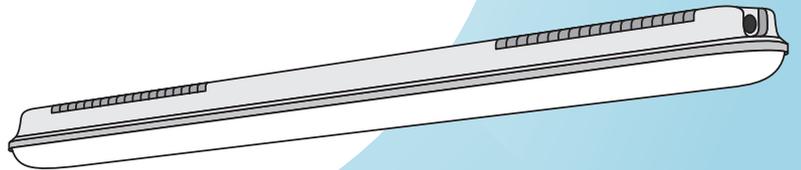
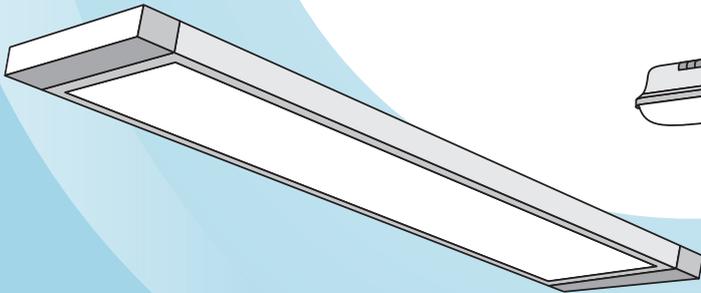


# THORN

ECO



[thorneco.com](http://thorneco.com)



# Great quality and great price

As part of THORN Lighting, our expertise and experience goes back decades. We offer you an economic range of LED luminaires to stock for the replacement market.

**5** Five year guarantee

THORNeco completes the THORN Brand portfolio with a range dedicated and specified for wholesalers and installers complying with European quality standards.

[www.thorneco.com](http://www.thorneco.com)



THORNeco



THORNecoLED

# Hi, we are **THORN** eco

At THORN, we pride ourselves on having a comprehensive product family that's designed to fulfil the needs of today's customers. Our OTC Wholesale offer – THORNeco – delivers great value for money, is easy to install, easy to stock and most importantly, is energy efficient. When it comes to sustainability, we care, starting with our new packaging which is 100% recyclable and plastic free. So, whether you're replacing existing luminaires or starting from scratch the THORNeco range has a product to meet your needs.



### #EasyToTrust

Tested and approved to European standards in THORN laboratories



### #EasyToSell

Right product, right price, right quality



### #EasyToStock

Low complexity, one product multiple functions



### #EasyToInstall

Fast, simple, plug & play



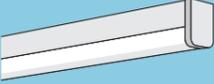
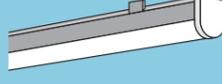
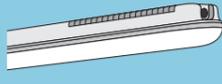
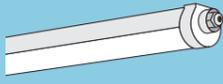
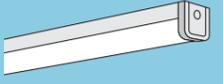
### #EasyToRecycle

100% plastic free & 100% recyclable packaging

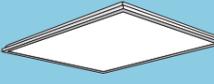
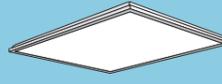
## #EasyTo #THORNeco

## INDOOR

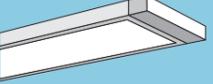
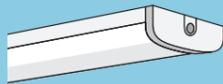
### BATTENS

<b>Elsa</b> 10	<b>Emma</b> 12	<b>Julie</b> 14	<b>Lucy</b> 16	<b>Poppy</b> 18
				
Bathroom Mirror Luminaire	IP20 Batten	IP65 Luminaire	IP66 Batten	IP40 Batten

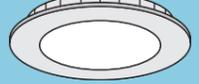
### PANELS

<b>Anna</b> 20	<b>Maya</b> 22
	
Panel	Panel

### SURFACE-MOUNTED & PENDANT

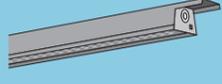
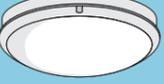
<b>Roxy</b> 24	<b>Freja</b> 26
	
Surface Mounted and Pendant Luminaire	IP44 Batten

### DOWNLIGHTS

<b>Amy</b> 28	<b>Zoe</b> 30	<b>Luca</b> 32	<b>Lily</b> 34	<b>Sylvie</b> 36
				
Recessed Downlight	Slim Downlight	Spotlight	Recessed IP44 Downlight	Recessed Fire-Rated Downlight

### SPOTLIGHTS

### HIGH BAYS

<b>Boris</b> 38	<b>Balder</b> 40	<b>Lena</b> 42	<b>Lara</b> 44	<b>Tom</b> 46
				
IP65 Luminaire	IP23 batten	Circular IP44 Bulkhead	Circular IP65 Bulkhead	Circular IP66 Bulkhead

### BULKHEADS

### BULKHEADS INDOOR/OUTDOOR

## OUTDOOR

<b>Leonie</b> 48	<b>Mary</b> 50	<b>Rosy</b> 52	<b>Holly</b> 54	<b>Leo</b> 56
				
Floodlight	Garden Floodlight	Walkover Inground Luminaire	Wall-mounted Outdoor Luminaire	High Power Floodlight

## EMERGENCY

### DOWNLIGHT

<b>Iris</b> 58

SelfTest Emergency Downlight

### SIGN

<b>Nina</b> 60

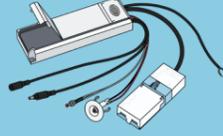
SelfTest Exit Sign

### BULKHEAD

<b>Sam</b> 62

SelfTest Emergency Bulkhead

### JUST KIT

<b>PLUG&amp;PLAY</b> 64

Just Emergency E3 Kit

## ACCESSORIES

### SENSORS

<b>ECO Sensor</b> 66

PIR Sensor and Photocell

### CONNECTORS

<b>Conny</b> 67

IP68 Connector

### CABLING

<b>Cables</b> 68

Extension cable, Mains adaptor and External integrator

# THORNECO FEATURES

We always strive to create products that are #EasyToStock and #EasyToSell.

Our range of products have a number of features giving the range a greater versatility.

This includes the VARIO, FLEX and JUST feature.



Switch from warm white to neutral white in one product.

One product, multiple colour temperatures: #EasyToStock #EasyToSell

Easy access for the installer to change the colour temperature before or during install. #EasyToInstall



[thorneco.com](http://thorneco.com)

# FLEX

The flexibility to define the lighting intensity on site via a switch on the luminaire.

One product, multiple lumen packages:  
#EasyToStock #EasyToSell

Easy access for the installer to change the lighting intensity before or during install. #EasyToInstall



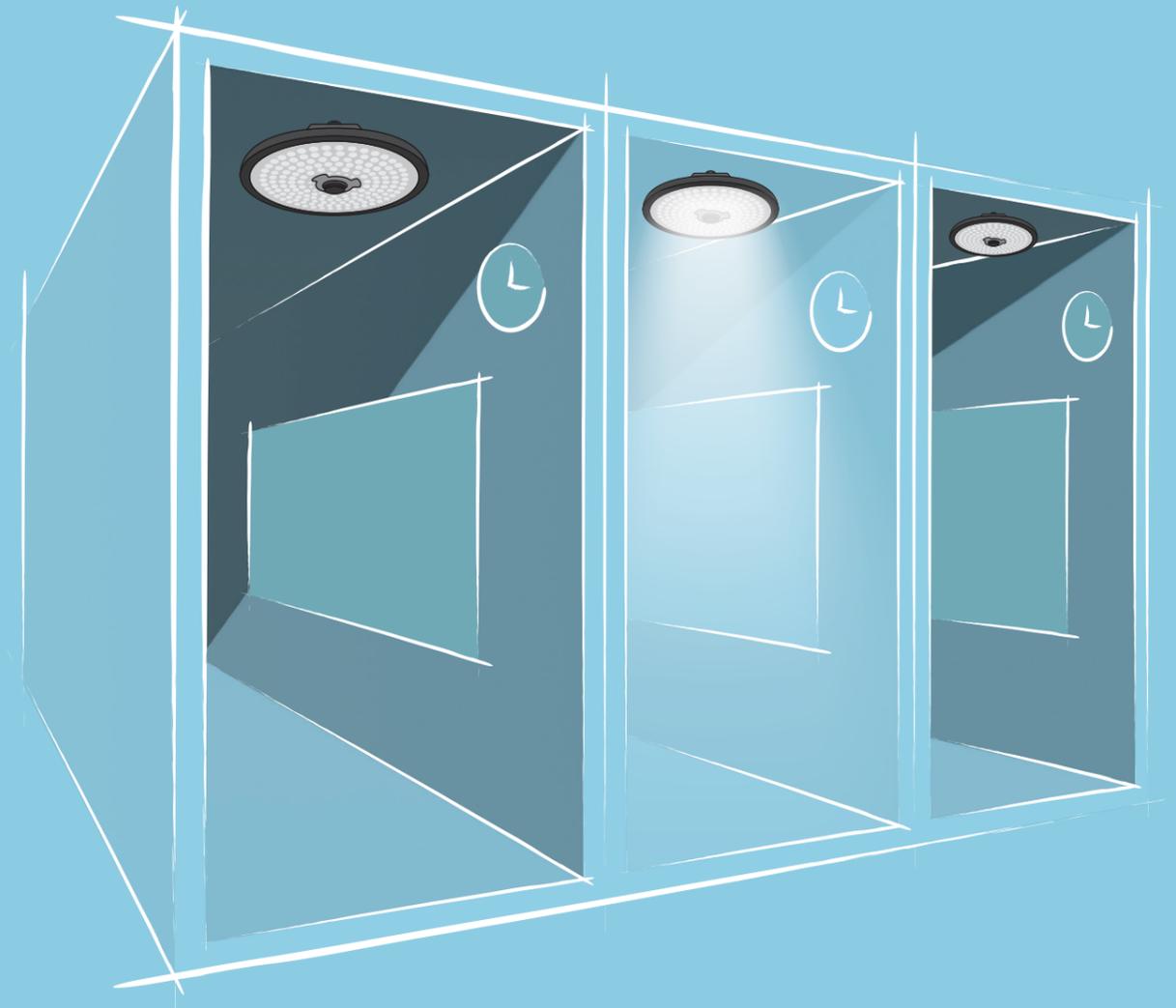
thorneco.com

# JUST

Easily convert standard products to an emergency version using a simple plug and play kit.

One product, multiple uses: #EasyToStock  
#EasyToSell

Easy access for the installer to convert the product to an emergency version before or during install. #EasyToInstall

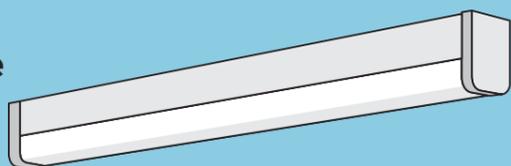


thorneco.com

# Elsa

VARIO FLEX

## LED Bathroom Mirror Luminaire



Ideal for:  
Sanitary rooms and bathrooms

Splash resistant, practical and appealing at the same time, Elsa takes care of your looks.



- VARIO Feature (Colour Temperature Switch): The ability to choose your colour temperature on site with the flick of a switch
- FLEX Feature (Lumen Output Switch): The flexibility to decide on your lumen package on site with the flick of a switch
- Colour Rendering  $\geq 90$  for your best look in front of the mirror
- Bathroom mirror luminaire with an elegant and timeless design
- Opal diffuser ensuring visual comfort and a fully homogeneous illumination
- Integrated on/off switch or sensor option (daylight & presence) available
- Tool-free wiring for quick installation



	L	W	H
ELSA S	450	59	81
ELSA L	600	59	81

Dimensions (mm)



### Specification

Electrical class	II
Ambient operating temperature	-20 to +40 °C

### Installation / Mounting

Mounting	Suitable for surface mounting Tool-free wiring with push terminal Sufficient space at the back of the batten for excess cable
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### Material / Finish

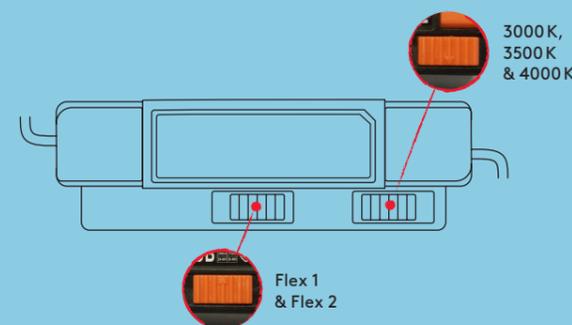
Body	Aluminium, white finish (RAL 9016)
Diffuser	PC, opal
End cap	PC, white finish (RAL 9016)

### Light source information

VARIO (Colour temperature switch)	3000 K, 3500 K & 4000 K
FLEX (Lumen switch)	450mm 600lm (7W), 800lm (9W) 600mm 900lm (9W), 1200lm (12W)
Efficiency	up to 100 lm/W
Lifetime	50 000 hours (@L70, Ta 25 °C)
MacAdam (Initial)	4
CRI	$\geq 90$

### VARIO & FLEX Feature

There is no need to worry about lumen packages or colour temperatures anymore – it's always the same product that can be easily adapted for your needs on site:



And of course your morning smile will be presented in the best light with  $\text{CRI} \geq 90$  – no matter which colour temperature you choose.

### Ordering Guide

Description	SAP Code
ELSA VARIOFLEX 450 800 930/35/40	96635659
ELSA VARIOFLEX 450 800 930/35/40 MWS	96635660
ELSA VARIOFLEX 600 1200 930/35/40	96635661
ELSA VARIOFLEX 600 1200 930/35/40 MWS	96635662

MWS: microwave presence sensor

### Presence & Daylight sensor

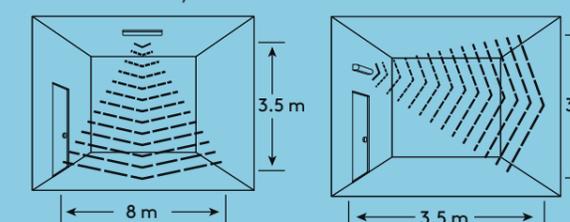
Elsa's microwave sensor option will ensure that light is only delivered when needed. This sensor is a motion switch, which turns on the light on detection of movement, and turns off after a pre-selected hold-time when there are no people around. This leaves the luminaire with a clean finish, as no on/off switch is used. A daylight sensor is also built-in to prevent the light switching on when there is sufficient natural light.

### Controllability (default)

Sensitivity	25%, 50%, 75%, 100%
Time	10 s, 1 min, 5 min, 10 min, 15 min, 20 min, 25 min, 30 min
Lux	10 lux, 20 lux, 50 lux, 100 lux, 300 lux, 500 lux, disable

### Sensor range

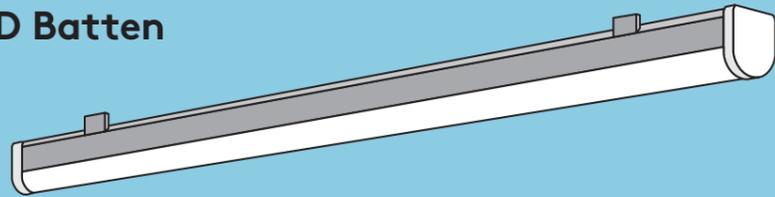
at 100% sensitivity



# Emma

VARIO FLEX

## LED Batten



**Ideal for:**  
Breakout areas, circulation  
corridors and cove lighting

Sleek and sophisticated, Emma's effortless style fits right in.

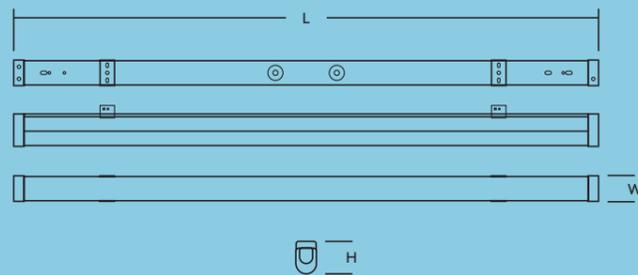


- **VARIO Feature (Colour Temperature Switch):** The ability to choose your colour temperature on site with the flick of a switch
- **FLEX Feature (Lumen Output Switch):** The flexibility to decide on your lumen package on site with the flick of a switch
- Fully homogeneous illumination. Elegant design: lightweight brushed aluminium profile
- High efficacy of up to 145 lm/W
- Mounting directly onto ceiling or by using flexible mounting brackets for any fixing hole distance



	L	W	H
EMMA S	605	43	53
EMMA M	1204	43	53
EMMA L	1504	43	53

Dimensions (mm)



### Specification

Electrical class	I
Ambient operating temperature	-20 to +40°C

### Installation / Mounting

Mounting	Surface mounting directly onto ceiling or with surface mount brackets (included) Suspended mounting with suspension kit (optional)
----------	---

### Material / Finish

Body	Aluminium
Diffuser	PC, opal white
End cap	PC, white (RAL 9016)
Ceiling clips	Stainless steel

### Light source information

VARIO (Colour temperature switch)	3000 K, 3500 K & 4000 K
FLEX (Lumen switch)	600mm 1000 lm(8W), 1500 lm(11W), 2000 lm(16W) 1200mm 2000 lm(32W), 3000 lm(22W), 4000 lm(30W) 1500mm 3000 lm(22W), 4500 lm(34W), 6000 lm(45W)
Efficiency	up to 145 lm/W
Lifetime	50 000 hours (@L80, Ta 25°C)
MacAdam (Initial)	5

### Ordering guide

Description	SAP Code
EMMA VARIO FLEX 600 2000 830/35/40	96635573
EMMA VARIO FLEX 1200 4000 830/35/40	96635574
EMMA VARIO FLEX 1500 6000 830/35/40	96635575
<b>Accessories</b>	
EMMA VARIO FLEX SUSPENSION KIT	96635576

MWS: microwave presence sensor

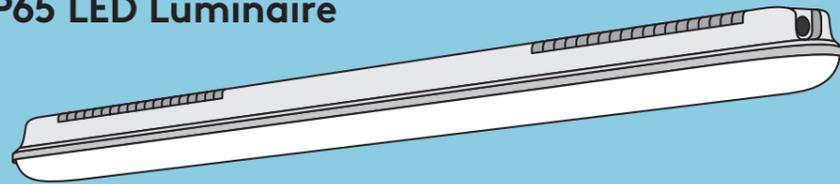
# Julie

FLEX

## IP65 LED Luminaire



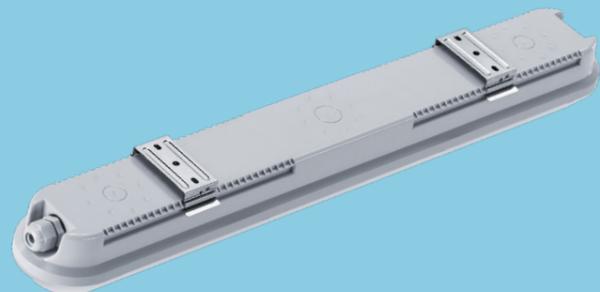
Ideal for:  
Multi story car parks, workshops,  
underpasses and storage facilities



Clipless design for a more robust performance and easy installation.

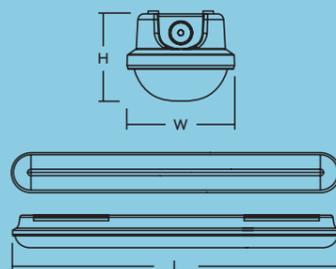


- FLEX Feature (Lumen switch): The flexibility to decide on your lumen package on site
- Click-fit clipless diffuser for easy installation
- Energy efficient up to 127 lm/W. Save up to 60 % energy compared to a T8 fluorescent
- Perfect for retrofit projects – flexible bracket sliders mean no re-drilling is required in 1:1 replacements
- Quick access with flat head screwdriver for easy maintenance
- Available in standard, quick connect, through-wire and presence sensor with corridor functionality versions
- BESA compatible
- JUST – adapt on-site to an emergency version using the Just Emergency Linear PLUG&PLAY kit (self test with manual option)
- DALI-2 option available



	Slider	L	W	H
JULIE 600 LED IP65	170-500	635	94	76
JULIE 1200 LED IP65	570-1100	1235	94	76
JULIE 1500 LED IP65	670-1400	1535	94	76

Dimensions (mm)



### Specification

Electrical class	I
Ambient operating temperature	-20 to +40 °C (E3: 0 to +25 °C)
Driver	ENEC certified

### Material / Finish

Canopy	UV stabilised grey polycarbonate
Diffuser	UV stabilised opal polycarbonate
Bracket	Stainless steel

### Light source information

Colour temperature	4000 K
FLEX (Lumen switch)	600mm 1000lm(8W), 1500lm(12W), 2200lm(18W) 1200mm 2200lm(18W), 3200lm(25W), 4200lm(34W) 1500mm 4200lm(33W), 5200lm(41W), 6300lm(51W) 1500mm 4200lm(33W), 6300lm(50W), 8600lm(72W)
Efficiency	> 127 lm/W
Total emergency flux	504
Lifetime	50 000 hours (@L80, Ta 25 °C)
MacAdam (Initial)	4

### Controllability (default)

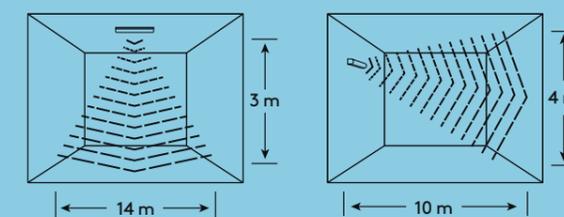
Sensitivity	10 %, 50 %, 75 %, 100 %
Time	5 s, 30 s, 60 s, 5 min, 10 min, 20 min, 30 min
Lux	2 lux, 10 lux, 50 lux, disable
Stand-by time	0 sec, 10 sec, 1 min, 10 min, 30 min, 60 min, endless
Dimming level	10 %, 20 %, 30 %, 50 %

### Presence sensor with corridor function

Julie's microwave sensor option with corridor function will ensure that you never walk in the dark. The settings are fully adjustable, with the additional benefit of a daylight sensor. Option to connect several luminaires together onto one sensor, for simultaneous functionality.

### Sensor range

at 100 % sensitivity



### Ordering guide

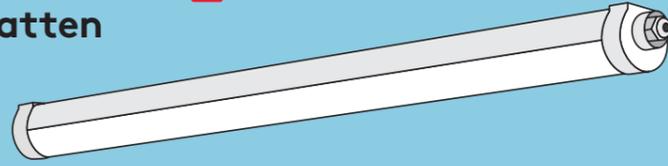
Description	SAP Code
JULIE FLEX 1200 4200 840	96700011
JULIE FLEX 1200 4200 840 QC	96700012
JULIE FLEX 1200 4200 840 COR MWS	96700013
JULIE FLEX 1200 4200 840 DALI	96700014
JULIE FLEX 1200 4200 840 TW	96636476
JULIE FLEX 1500 6300 840	96700015
JULIE FLEX 1500 6300 840 QC	96700016
JULIE FLEX 1500 6300 840 COR MWS	96700017
JULIE FLEX 1500 6300 840 DALI	96700018
JULIE FLEX 1500 6300 840 TW	96636477
JULIE FLEX 1500 8600 840	96700019
JULIE FLEX 1500 8600 840 QC	96700020
JULIE FLEX 1500 8600 840 TW	96636478
JULIE FLEX 600 2200 840	96700023
JULIE FLEX 600 2200 840 DALI	96700024
JUST E3 LINEAR P&P KIT SELFTTEST LiFePo4*	96700027

MWS: microwave presence sensor  
COR: corridor function  
TW: through-wired  
QC: with quick connector

\* not compatible with 600mm, DALI and QC versions

# Lucy

## LED Batten



**Ideal for:**  
Multi story car parks, workshops,  
underpasses and storage facilities

Tough, resilient and efficient, Lucy is ideal for workshop areas and functional applications.

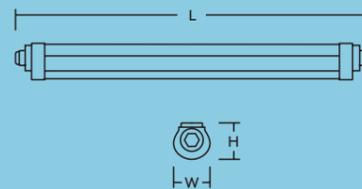


- High quality, low energy lighting in wet and dusty environments with opal diffuser for uniform lighting
- 4 lumen packages from 2000 lm up to 8000 lm
- Through-wired: equipped with two 3-pole push-terminals (N, earth, L) as standard
- Simple twist & lock mechanism allows access to the end caps allowing access to the push terminals
- Mounting brackets can be positioned freely on the luminaire to give flexible installation



	L	W	H
LUCY 600 LED IP66	663	77	68
LUCY 1200 LED IP66	1263	77	68
LUCY 1500 LED IP66	1563	77	68
LUCY 1800 LED IP66	1825	77	68

Dimensions (mm)



### Specification

Electrical class	I
Ambient operating temperature	-20 to +40°C

### Material / Finish

Body	UV stabilised white polycarbonate
Diffuser	UV stabilised opal polycarbonate

### Installation / Mounting

Mounting	Suitable for surface mounting with surface mount brackets (included) Suitable for Suspension (Optional Kit) Mounting brackets can flexibly slide along the full length of the product
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### Light source information

Colour temperature	3000 K & 4000 K
Lumen	600mm 2000lm (16.5W-4000K) 1200mm 4000lm (33W-4000K) 1500mm 6000lm (50W-4000K) 1800mm 8000lm (66W-4000K)
Efficiency	up to 121lm/W
Lifetime	50 000 hours (@L80, Ta 25°C)
MacAdam (Initial)	4

### Ordering guide

Description	SAP Code
LUCY 600 LED IP66 2000 840 TW	96630331
LUCY 1200 LED IP66 4000 840 TW	96630332
LUCY 1500 LED IP66 6000 840 TW	96630333
LUCY 1800 LED IP66 8000 840 TW	96630334
LUCY LED SUSPENSION KIT	96631301

The twist & lock mechanism in the end caps ...



... allows access to the push terminals ...

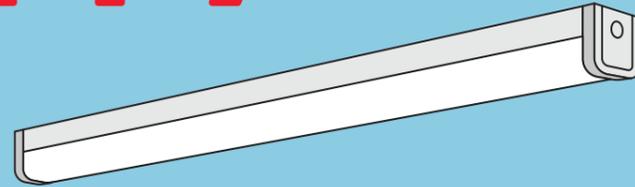


... for an easy, quick and tool-free installation



# Poppy

## LED Batten



Ideal for:  
Corridors, Workshops,  
Warehouses & Secondary Rooms

Tactful and timeless, Poppy blends into a wide range of indoor settings.

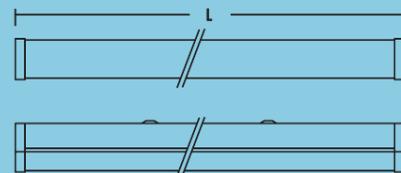


- **FLEX Feature (Lumen Output Switch):** The flexibility to decide on your lumen package on site with the flick of a switch
- Easy to install IP40 batten
- Direct replacement for conventional battens in terms of light performance and length
- The innovative design protected endcap provides a unique tool free locking mechanism that guards fitting against unauthorised access
- Locking mechanism easy to open with correct tools for maintenance
- **JUST:** adapt on-site to an emergency version using the Just Emergency Linear PLUG&PLAY kit (with self test manual test option)
- High visual comfort light emitting surface
- Cable entry from back or side
- Push terminal for loop-in/out wiring
- Wide fitting reducing the possibility of repainting after installation
- BESA compatible



	L	W	H
POPPY FLEX 1200	1204	71	81
POPPY FLEX 1500	1504	71	81
POPPY FLEX 1800	1766	71	81

Dimensions (mm)



### Specification

Electrical class	I
Ambient operating temperature	-20 to +40 °C
Driver	ENEC

### Material / Finish

Body	Sheet metal, white finish (RAL 9002)
Diffuser	Polycarbonate, Opal UV stabilized
End caps	Polycarbonate, White (RAL 9002) UV stabilized

### Installation / Mounting

Mounting	Surface mount
Installation	Tool free

### Light source information

Colour temperature	4000 K
Lumen	1200mm 2600lm (19W), 3800lm (29W), 5000lm (38W) 1500mm 3500lm (26W), 5000lm (39W), 6500lm (52W) 1800mm 4400lm (31W), 6500lm (47W), 8500lm (64W)
Efficiency	up to 142lm/W
Total emergency flux	523
Lifetime	50 000 hours (@L80, Ta 25 °C)
MacAdam (Initial)	< 5

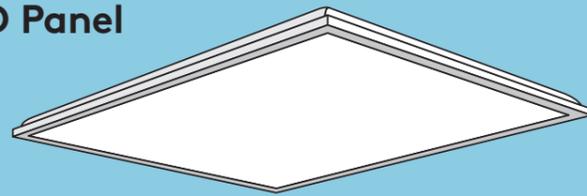
### Ordering guide

Description	SAP Code
POPPY FLEX 1200 5000 840	96637592
POPPY FLEX 1500 6500 840	96637593
POPPY FLEX 1800 8500 840	96637594
JUST E3 LINEAR P&P KIT SELFTTEST LiFePo4	96700027

# Anna

VARIO FLEX

## Recessed LED Panel



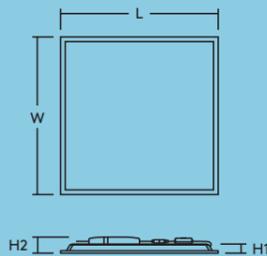
Providing high quality light with low glare and high efficiency.



- **VARIO Feature (Colour Temperature Switch):** The ability to choose your colour temperature on site with the flick of a switch
- **FLEX Feature (Lumen Output Switch):** The flexibility to decide on your lumen package on site with the flick of a switch
- Integrated self-test emergency indicator with the JUST E3 self-test kit
- Energy efficient with 126 lm/W
- Gentle, soft and glare free lighting with UGR <19
- Direct replacement for 4x14W T5 or 4x18W T8 fluorescent panels
- Easy, quick and tool-free installation thanks to an integrated connector with a 4-pole push terminal (for up to 2.5 mm<sup>2</sup> wires) enabling loop-in loop-out wiring
- The detachable connector enables first fix wiring and high voltage circuit testing while the luminaire is detached
- JUST – adapt on-site to an emergency version using the Just Emergency PLUG&PLAY kit

	L	W	H1	H2
ANNA Q596	596	596	35	60
ANNA Q622	622	622	35	60
ANNA 1200 x 300	1196	296	35	60
ANNA 1200 x 600	1196	596	35	60

Dimensions (mm)



Ideal for:  
Schools/universities  
and office/meeting rooms



### Specification

Electrical class	II
Ambient operating temperature	-20 to +40 °C
Driver	ENEC certified
DALI	DALI-2 and SwitchDim – suitable for emergency escape lighting systems acc. to EN 50172

### Installation / Mounting

Mounting	Safety wire included in Q596 and 12 x 3 versions
Installation	Lay-in installation in T-bar ceiling grids – suitable for suspended, surface and plaster board installation (accessories available separately)

### Material / Finish

Frame	Aluminium
Diffuser	Q596/622/12x3: PS, opal. 12x6: micro-prismatic PS
Light guide panel	Q596/622/12x3: PC, TPb rated. 12x6: PS, TPb rated
Backplate	Steel sheet

### Light source information

VARIO (Colour temperature switch)	3000K, 3500K, 4000K
FLEX (Lumen switch)	Q596, Q622 & 1200x300: 3000lm (23W), 3750lm (20W), 4000lm (31W), 4400lm (35W) 1200x600: 3600lm (25W), 4600lm (32W), 5600lm (40W), 6600lm (47W)
Efficiency	up to 140 lm/W (1200x600)
Lifetime	50 000 hours (@L80, Ta 25 °C)
MacAdam (Initial)	4

### Controllability (DALI-2)

Dimming level	1-100 %
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### Ordering guide

Description	SAP Code
ANNA VARIOFLEX 3 Q596 4400 830/35/40	96638248
ANNA VARIOFLEX 3 Q622 4400 830/35/40	96638249
ANNA VARIOFLEX 3 12x3 4400 830/35/40	96638250
ANNA VARIOFLEX 3 Q596 4400 830/35/40 DALI	96638251
ANNA VARIOFLEX 3 Q622 4400 830/35/40 DALI	96638252
ANNA VARIOFLEX 3 12x3 4400 830/35/40 DALI	96638253
ANNA VARIOFLEX 3 12x6 6600 830/35/40	96638246
ANNA VARIOFLEX 3 12x6 6600 830/35/40 DALI	96638247

### Accessories

TECO SURFACE MOUNT BOX Q596	96701909
TECO SURFACE MOUNT BOX Q622	96701910
TECO SURFACE MOUNT BOX 12x3	96701911
TECO 12x6 SURFACE MOUNT BOX	96701908
TECO ANNA V RECESSED SPRINGS	96700007
TECO ANNA VF 3 CONNECTOR DRIVER	59014038
TECO SUSPENSION KIT	96638254
JUST E3 PLUG&PLAY KIT SELFTEST LiFePO4	96634428
JUST E3 PLUG&PLAY KIT MANUALTEST LiFePO4	96635766
REPLACEMENT BATTERY FOR 96634428	59011337

830 – 3000K / 835 – 3500K / 840 – 4000K

### VARIO and FLEX feature

There is no need to worry about lumen packages or colour temperatures anymore – it's always the same product and the adaption to your application can be done directly on site:



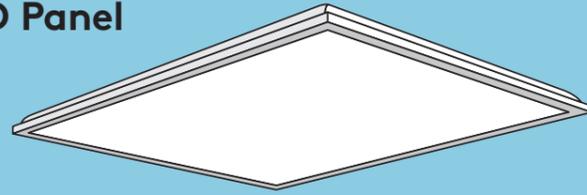
Colour temperature switch



Lumen output switch

# Maya

## Recessed LED Panel

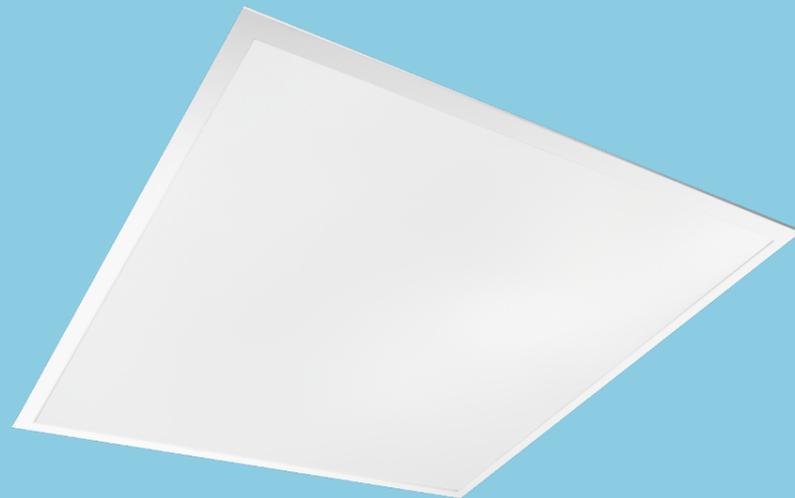


Ideal for:  
Office/meeting rooms, schools/universities,  
libraries and retail spaces

Providing homogenous, high-quality light with low glare, over a long lifetime. Maya recessed LED panel is the right choice for those who seek an affordable, simple solution for the refurbishment.

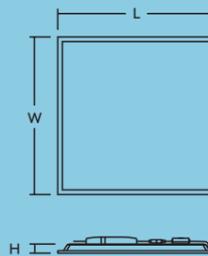


- 1:1 replacement for traditional office luminaire
- Direct replacement for 4 x 14w T5 or 4x18w T8 fluorescent
- Gentle, soft and glare free lighting with UGR<19
- Easy and quick installation thanks to a connector box with a 4-pole piano-key connector (for up to 2.5mm<sup>2</sup> wires) enabling loop-in loop-out wiring
- Surface mounting is optional using the THORNeco Surface Mount Kit (separately available)
- Safety wire kit is available as optional extra
- Long lifetime L70 50 000 h
- Compatible with the PLUG&PLAY Emergency kit (separately available)



	L	W	H
MAYA	596	596	34

Dimensions (mm)



### Specification

Electrical class	II
Ambient operating temperature	-5 to +40 °C

### Installation / Mounting

Mounting	Safety wire (96637596 TECO MAYA Safety kit) available separately
Installation	Lay-in installation in T-bar ceiling grids – suitable for surface installation (accessories available separately)

### Material / Finish

Frame	Aluminium
Diffuser	PS
Backplate	Steel sheet

### Light source information

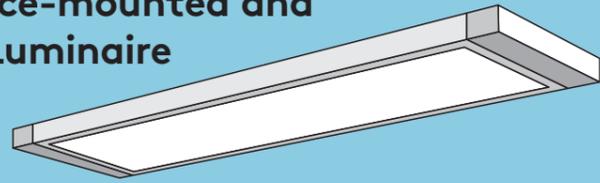
Colour temperature	4000 K
Lumen output	3500 lm (32 W)
Efficiency	up to 110 lm/W
Total emergency flux	430
Lifetime	50 000 hours (@L70, Ta 25 °C)
MacAdam (Initial)	5

### Ordering guide

Description	SAP Code
MAYA Q596 3500 840	96637595
<b>Accessories</b>	
TECO MAYA SAFETY KIT	96637596
TECO SURFACE MOUNT BOX Q596	96635585
JUST E3 PLUG&PLAY KIT MANUAL TEST LiFePO4	96635766

# Roxy FLEX

## LED Surface-mounted and Pendant Luminaire



Versatile and comfortable, Roxy provides the right light for desk-based working.



- **FLEX Feature (Lumen Output Switch):** The flexibility to decide on your lumen package on site with the flick of a switch
- With UGR <19 Roxy provides comfortable glare-free lighting ideal for learning and desk based environments
- Available in direct, direct/indirect and asymmetric, Roxy has the right mix

of distributions to meet all of your requirements

- Save time with this lightweight, easy to install luminaire
- Exchangeable endcaps converts Roxy easily to emergency, presence and daylight sensor and enables continuous row

### End Cap Accessories

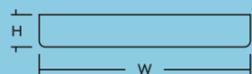
Continuous Row



Emergency



Sensor



	L	W	H
ROXY 1200	1200	306	47
ROXY 1500	1500	306	47

Dimensions (mm)

Ideal for:  
Schools/universities  
and office/meeting rooms

### Specification

Electrical class	I
Ambient operating temperature	-20 to +40°C (E3: 0 to +40°C)

### Installation / Mounting

Mounting	Suitable for ceiling mounting, (drilling template directly on packaging) Suitable for suspension (optional kit for direct and asymmetric luminaire) Wall brackets for wall mounting available
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### Material / Finish

<b>Direct</b>	
Body	Extruded aluminium
Diffuser	PS, UGR Sheet: PET
<b>Direct/Indirect</b>	
Body	Extruded aluminium
Diffuser	PS, UGR Sheet: PET
Lens	PC
<b>Asymmetric</b>	
Body	Sheet steel
Lens	PC

### Light source information

Colour temperature	4000 K
Lumen packages	2000lm (16W)(ASYM) 4000lm (32W)(Direct) 5500lm (45W)(Direct and Direct/Indirect)
Efficiency	>127lm/W
Total emergency flux	430
Lifetime	50 000 hours rated life (@L80, Ta 25°C)
MacAdam (Initial)	4
UGR	<19

### Controllability (default)

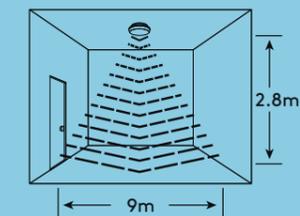
Sensitivity	50%, 100%
Time	5 sec (test mode), 5 min, 15 min, 30 min
Lux	100lux, 200lux, 300lux, 400lux, 500lux, OFF

### Ordering guide

Description	SAP Code
ROXY 1200 D 4000 840 FLEX	96634867
ROXY 1500 D 5500 840 FLEX	96634869
ROXY 1200 D/I 5500 840 FLEX	96634871
ROXY 1200 ASYM 2000 840	96634873
<b>DALI</b>	
ROXY 1200 D 4000 840 HFIX	96634868
ROXY 1500 D 5500 840 HFIX	96634870
ROXY 1200 D/I 5500 840 HFIX	96634872
ROXY 1200 ASYM 2000 840 HFIX	96634874
<b>Accessories</b>	
ROXY PIR PLUG&PLAY	96634876
ROXY E3 PLUG&PLAY	96634877
ROXY CONNECTOR	96634879
ROXY SUSPENSION KIT	96634878
ROXY WALL BRACKETS	96634875

### Sensor range

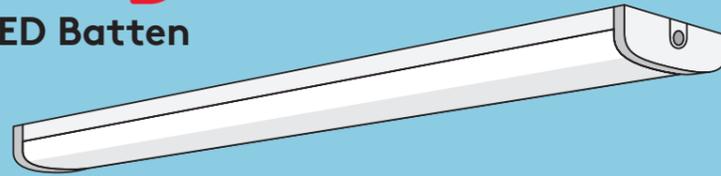
at 100% sensitivity



# Freja

VARIO FLEX

## IP44 LED Batten



Ideal for:  
Circulation areas,  
garages and storage rooms

Ideal for refurbishment projects or new installation, Freja offers you a truly flexible solution.



- VARIO Feature (Colour Temperature Switch): The ability to choose your colour temperature on site with the flick of a switch
- FLEX Feature (Lumen Output Switch): The flexibility to decide on your lumen package on site with the flick of a switch
- FLEX combined with VARIO – for easier warehouse management and your full flexibility onsite
- High efficiency of up to 149 lm/W
- Two cable entries from back and one each end. Cable entries at the ends already broken out for easy installation
- Integrated cable holders



	L	W	H
FREJA 1200	1255	170	66
FREJA 1500	1555	170	66

Dimensions (mm)



### Specification

Electrical class	I
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### Installation / Mounting

Mounting	Suitable for surface mounting
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### Material / Finish

Diffuser	Microprismatic Frosted Polycarbonate
Body	Sheet Steel (white)
Endcaps	Polycarbonate (white)

### Light source information

VARIO (Colour temperature switch)	3000 K, 3500 K, 4000 K		
FLEX (Lumen switch)	1200mm	2100 lm(15W), 3200 lm(22W), 4200 lm(29W)	
	1500mm	3500 lm(24W), 5250 lm(36W), 7000 lm(47W)	
Lifetime	100 000 hours (@L70, Ta 25°C)		
MacAdam (Initial)	3		

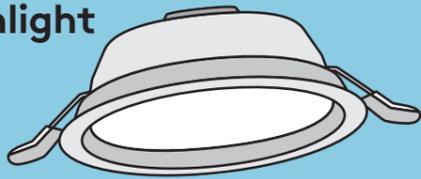
### Ordering guide

Description	SAP Code
FREJA VARIOFLEX 1200 4200 830/35/40	96636005
FREJA VARIOFLEX 1500 7000 830/35/40	96636006

# Amy

VARIO FLEX

## Recessed LED Downlight



**Ideal for:**  
Circulation corridors, reception areas, schools/universities and office/meeting rooms

Versatile, flexible and timeless, Amy is the ideal solution for a wide range of applications.

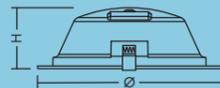


- **FLEX Feature (Lumen Output Switch):** The flexibility to decide on your lumen package on site with the flick of a switch
- **VARIO Feature (Colour Temperature Switch):** The ability to choose your colour temperature on site with the flick of a switch
- New lightweight housing - compact, light and secure with IK06 rating
- Homogeneously lit opaque white diffuser
- Direct replacement for traditional 1x18W, 1x26W, 2x18W or 2x26W CFL downlights
- Easy, quick and tool-free installation thanks to an integrated connector unit with a 4-pole piano-key terminal (for up to 2.5 mm wires) enabling loop-in loop-out wiring
- **JUST** - adapt on-site to an emergency version using the Just Emergency PLUG&PLAY kit



	Ø	H	Cutout
AMY 100	117	41	100 - 105
AMY 150	168	56	150 - 155
AMY 190	230	81.5	190 - 215
AMY 220	250	81.5	220 - 240

Dimensions (mm)



### Specification

Electrical class	II
Ambient operating temperature	-20°C to +40°C (E3: 0 to +40°C)
IP	IP44 (room side) IP20 (from above)

### Installation / Mounting

Installation	Recessed installation into a wide range of ceiling types 4-pole terminal in a connector unit integrated into driver for tool-free wiring, also enabling loop-in loop-out Can be covered with insulation material, IC-4 rated"
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### Material / Finish

Body	Polycarbonate, white (RAL9003)
Diffuser	Polycarbonate, TPA

### Light source information

VARIO (Colour temperature switch)	3000 K, 3500 K, 4000 K
FLEX (Lumen switch)	100 460lm (4W), 700lm (6W) 150 950lm (8W), 1150lm (10W), 1500lm (13W) 190/200 1400lm (12W), 1600lm (14W), 1950lm (17W)
Efficiency	115 lm/W
Total emergency flux	450
Lifetime	50 000 hours (@L80, Ta 25°C)
MacAdam (Initial)	4

### VARIO and FLEX feature

There is no need to worry about lumen packages or colour temperatures anymore - it's always the same product and the adaption to your application can be done directly on site:



Colour temperature switch



Lumen output switch

### Ordering guide

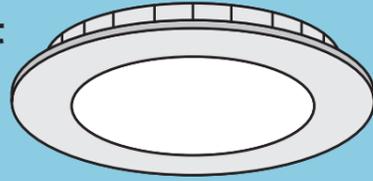
Description	SAP Code
AMY VARIOFLEX 100 700 830/35/40	96638035
AMY VARIOFLEX 150 1500 830/35/40	96638036
AMY VARIOFLEX 190 1950 830/35/40	96638170
AMY VARIOFLEX 200 1950 830/35/40	96638037
<b>Accessories</b>	
JUST E3 PLUG&PLAY KIT MANUALTEST LiFePo4	96635766
REPLACEMENT BATTERY for 96634428	59011337
JUST E3 PLUG&PLAY KIT SELFTEST LiFePo4	96634428
DRV TE AMY VF 200 V1	59013915



# Zoe

VARIO FLEX

## Slim LED Downlight



**Ideal for:**  
Circulation corridors, reception areas,  
schools/universities and office/meeting rooms

Slim, flexible and comfortable, Zoe is ideal for your everyday needs.

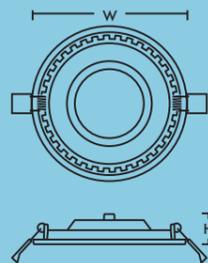


- **VARIO Feature (Colour Temperature Switch):** The ability to choose your colour temperature on site with the flick of a switch
- **FLEX Feature (Lumen Output Switch):** The flexibility to decide on your lumen package on site with the flick of a switch
- Prismatic diffuser improves perceived glare
- The slimline profile of 27 mm fits most ceiling types
- Easy, quick and tool-free installation thanks to an integrated connector with a 4-pole push terminal (for up to 2.5 mm<sup>2</sup> wires) enabling loop-in loop-out wiring
- The 200 mm version with DALI driver allows for complete dimmability
- **JUST:** adapt on-site to an emergency version using the Just Emergency PLUG&PLAY kit



	Cutout	W	H
ZOE 130	130-135	146	27
ZOE 165	165-170	181	27
ZOE 200	205-210	221	27

Dimensions (mm)



### Specification

Electrical class	II
Ambient operating temperature	-20 to +40°C (E3: 0 to +40°C)
IP	IP44 (from below), IP20 (from above)
DALI	DALI-2 and Switch DIM

### Installation / Mounting

Mounting	Recessed installation into a wide range of ceiling types Connector for tool-free wiring, also enabling loop-in loop-out Surface mounting option for Zoe 200
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### Material / Finish

Body	Back plate: Steel Frame:Aluminium, white finish
Diffuser	Prismatic PC
Light Guide Panel	PMMA

### Light source information

VARIO (Colour temperature switch)	3000K, 3500K & 4000K		
FLEX (Lumen switch)	130mm	330lm(3W)	550lm(5W) 700lm(6.5W)
	165mm	650lm(6W)	850lm(8W) 1000lm(9.5W)
	200mm	1200lm(11W)	1600lm(15W) 2000lm(19W)
Efficiency	up to 110lm/W		
Total emergency flux	130mm	315	
	165mm	315	
	200mm	315	
Lifetime	50000 hours (@L80, Ta 25°C)		
MacAdam (Initial)	4		

### Controllability (DALI-2)

Dimming level	1-100%
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### VARIO and FLEX feature

There is no need to worry about lumen packages or colour temperatures anymore – it's always the same product and the adaption to your application can be done directly on site:



Colour temperature switch



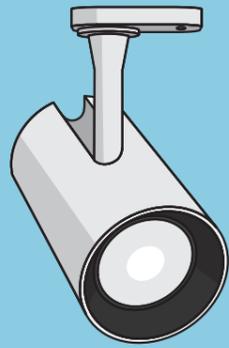
Lumen output switch

### Ordering guide

Description	SAP Code
ZOE VARIOFLEX 130 700 830/35/40	96637118
ZOE VARIOFLEX 165 1000 830/35/40	96637119
ZOE VARIOFLEX 200 2000 830/35/40	96637120
<b>DALI</b>	
ZOE VARIO 200 2000 830/835/840 DALI	96637643
<b>Accessories</b>	
ZOE VARIO 210 SURFACE MOUNT BOX	96635258
JUST E3 PLUG&PLAY KIT MANUALTEST LiFePO4	96635766
JUST E3 PLUG&PLAY KIT SELFTEST LiFePo4	96634428
REPLACEMENT BATTERY FOR 96634428	59011337

# Luca

## LED Spotlight



**Ideal for:**  
Retail/outlets, supermarkets,  
exhibition halls and DIY/furniture

With its modern design and unobtrusive integration,  
Luca sets the focus and attention where it needs to be.

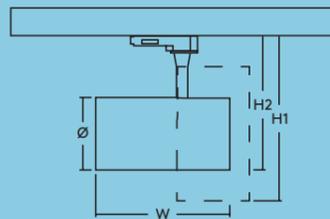


- CRI 90 for best colour rendition to focus the attention on the product or art
- Available in 3 sizes: Small (54 mm), Medium (69 mm) and Large (79 mm)
- Versatile - each product has two interchangeable lenses offering different beam angles
- 90° tilt and 350° rotation make Luca adjustable to your display needs
- Universal adapter suitable for most 3-phase tracks



	Ø	W	H1	H2	Beam angle
LUCA S	54	110	154	120	15°/38°
LUCA M	69	140	178	136	24°/38°
LUCA L	79	146	179	146	24°/38°

Dimensions (mm)



### Specification

Electrical class	I
Ambient operating temperature	-20°C to +35°C

### Installation / Mounting

Mounting	Compatible with: GLOBAL, EUTRAC, POWERGEAR, ZUMTOBEL, NORLUX, NUCO, NORDIC
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### Material / Finish

Body	Aluminium die-cast, white (RAL9016), black (RAL9005)
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### Light source information

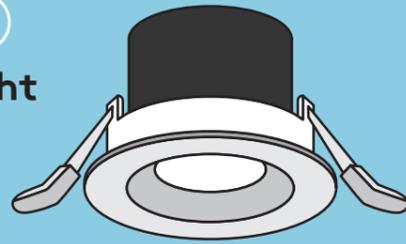
Colour temperature switch 3000 K & 4000 K	
Lumen	S 54 mm with 1200 lm(15W) and 15° or 38° beam angle M 69 mm with 2100 lm(23W) and 24° or 38° beam angle L 79 mm with 3200 lm(34W) and 24° or 38° beam angle
Efficiency	up to 94 lm/W
Lifetime	50 000 hours (@L70, Ta 25°C)
CRI	>90

### Ordering guide

Description	SAP Code
LUCA S 38° 1400 930 WH	96635365
LUCA M 38° 2100 930 WH	96635367
LUCA M 38° 2100 930 BK	96635371
LUCA M 38° 2100 940 WH	96635375
LUCA L 38° 3200 930 WH	96635369
LUCA L 38° 3200 930 BK	96635373
LUCA L 38° 3200 940 WH	96635377

# Lily

IP44 LED Downlight

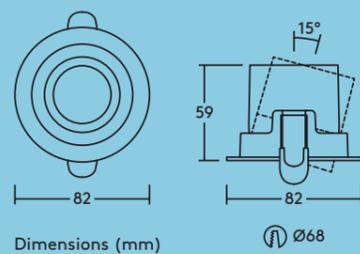


Ideal for:  
Residential, reception,  
hotels and restaurants

With many different options, Lily is a versatile solution suitable for various applications.



- **FLEX Feature (Lumen switch):** The flexibility to decide on your lumen package on site makes Lily easy to stock and easy to use
- IP44 downlight with 24°, 38° or 60° beam angle
- Optional accessory to boost to IP65 from below
- Suitable for covering directly with insulation materials
- Direct replacement for 35W and 50W halogen downlights
- Product height of only 59 mm: fits various ceiling types
- Suitable for use with phase-cut dimmer switches
- Save time with easy, tool-free installation
- Press fit terminal enables convenient loop in and loop out
- A full assortment of bezel and can accessories make Lily super versatile and easy to convert to pendant or surface mount
- **JUST:** adapt on-site to an emergency version using the Just Emergency PLUG&PLAY kit



## Specification

Electrical class	II
Ambient operating temperature	-20 to +40°C
IP	IP44 (from below), IP20 (from above); with optional IP65 trim: IP65 (from below), IP20 (from above)

## Installation / Mounting

Mounting	Lily downlight can be installed into a wide range of ceiling types Mineral wool insulation can be placed directly over the top of the fitting
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## Material / Finish

Body	Aluminium heat sink, powder coated
Bezel trim	Aluminium, powder coated
Lens	PC

## Light source information

Colour temperature	3000K and 4000K
Lumen	600lm (6W) 850 lm (8.5W)
Efficiency	up to 100lm/W
Total emergency flux	300
Lifetime	50 000 hours (@L80, Ta 25°C)
MacAdam (Initial)	3
CRI	≥ 90

## Ordering guide

Complete product – light engine plus round white adjustable trim included	SAP Code
LILY LED SPOT IP44 38° 68 850 930 ADJ WH*	96632290
LILY LED SPOT IP44 38° 68 850 940 ADJ WH*	96632291
Accessories – Light engines	
LILY LED SPOT IP44 24° 68 850 930**	96633278
LILY LED SPOT IP44 24° 68 850 940**	96633279
LILY LED SPOT IP44 38° 68 850 930**	96633284
LILY LED SPOT IP44 38° 68 850 940**	96633285
LILY LED SPOT IP44 60° 68 850 930**	96633290
LILY LED SPOT IP44 60° 68 850 940**	96633291
Accessories	
JUST E3 PLUG&PLAY KIT SELFTEST LiFePO4	96634428
JUST E3 PLUG&PLAY KIT MANUALTEST LiFePO4	96635766

Accessories – Trims & Cans	white	black	silver
Bezel trim round adjustable	96632298	96632302	96632303
Bezel trim square adjustable	96632300	96632304	96632305
Bezel trim IP65	96632301		
Pendant can	96633292	96633293	

\* Complete product including trim, phase cut dimmable driver and loop in loop out connectors.  
\*\* Light Engine including phase cut dimmable driver and loop in loop out connectors. Choose either a bezel trim or a pendant can to complete the product of your choice.  
WH: white; BLK: black; SIL: silver



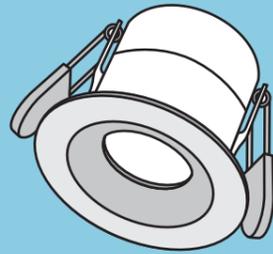
# Sylvie

VARIO

## Fire-Rated Downlight



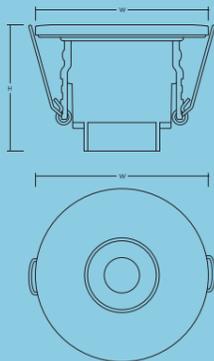
Ideal for:  
Residential and small business: corridors,  
passages, indoor circulation areas.



Sleek, fire rated and flexible. Sylvie is ideal for many situations.



- VARIO Feature (Colour Temperature Switch): The ability to choose your colour temperature on site with the flick of a switch
- 90/60/30 min fire-rated\* downlight
- Direct replacement of 35W halogen fire-rated downlights
- Integrated design of the housing includes driver and connection unit with an IP65 rating from below
- Product height of only 64 mm: fits various ceiling types
- Can be covered with insulation material
- Strain relief integrated into the connector unit to prevent installation errors
- Safe and quick push-in connection with loop-in loop-out
- Suitable for use with phase-cut dimmer switches. trailing and leading-edge dimmers
- Supplied with a white trim (Brushed Nickel metal trim available as optional extra)



	W	H
SYLVIE	88	64

Dimensions (mm)

\* According to BS 476 Part 20, 21



### Specification

Electrical class	II
Ambient operating temperature	-10 to +40°C
IP	IP65 (room side), IP20 (from above)
IK	03
Driver	Integrated, dimmable

### Installation / Mounting

Mounting	Recessed installation into ceilings with 3 - 35 mm sickness 6-pole push-in connector, 6x1.5 mm <sup>2</sup> , enabling loop-in loop-out
Installation	Cutout Ø 68 mm

### Material / Finish

Body	Aluminium, PC
Diffuser	PC
Bezel trim	ABS (supplied by default); aluminium as option

### Light source information

VARIO (Colour temperature switch)	3000 K, 3500 K and 4000 K
Lumen output	550 lm (6 W)
Beam angle	60°
Efficiency	up to 100 lm/W
Lifetime	50 000 hours (@L70, Ta 25°C)
MacAdam (Initial)	5

### Controllability

Dimming Level	10 - 100 %
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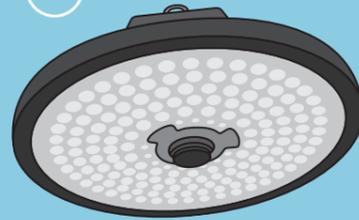
### Ordering guide

Description	SAP Code
SYLVIE VARIO 68 550 830/35/40	96637641
<b>Accessories</b>	
TECO SYLVIE TRIM NIC	96637642

# Boris

FLEX

## LED High Bay

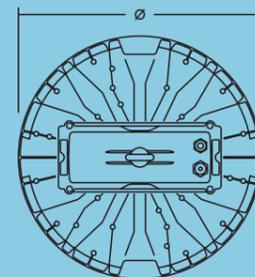
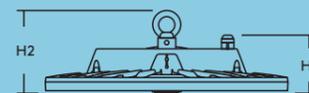
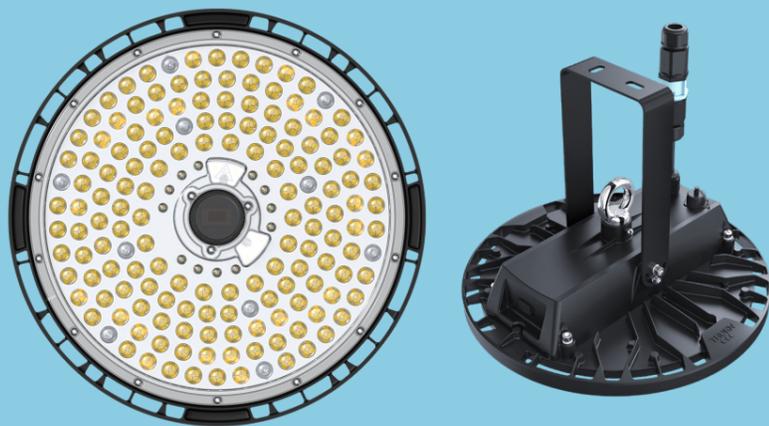


Ideal for:  
Manufacturing, storage facilities,  
retail and exhibition halls

Powerful yet gentle, highly efficient Boris is the ideal solution for high ceilings and open areas.



- **FLEX Feature (Lumen switch):** The flexibility to decide on your lumen package on site makes Boris easy to stock and easy to use
- **High output low glare, at <25 UGR** Boris has the right balance of power and comfort
- **Excellent efficiency up to 162lm/W** make Boris a great replacement for conventional lighting with energy savings of greater than 50% versus traditional solutions
- **Save time and money with hassle free quick connect installation**
- **Super versatile, Boris can easily be converted to emergency and sensor versions with quick connect plug in kits**



	Ø	H1	H2
BORIS S	303	91	130
BORIS L	380	91	130

Dimensions (mm)

### Specification

Electrical class	I
Ambient operating temperature	-30 to +50°C (standard versions) 0 to +40°C (emergency versions)

### Installation / Mounting

Mounting	Single point for suspension or surface mounting (mounting hook supplied with luminaire) Stirrup for wall/ceiling mounting (available as accessory)
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### Material / Finish

Body	Die cast aluminium
Lens	Polycarbonate
Stirrup	Powdercoated sheet steel

### Light source information

Colour temperature	4000 K
FLEX (Lumen switch)	S 12500lm(78W), 16000lm(100W), 20000lm(130W) L 21000lm(130W), 25000lm(160W), 30000lm(195W)
Efficiency	up to 162lm/W
Total emergency flux	S 795 L 841
Lifetime	50 000 hours (@L80, Ta 25°C)
MacAdam (Initial)	5
UGR	<25

### Controllability

Brightness	Adjust luminous flux from 70 – 100%
Sensitivity	Set up the sensor sensitivity according to occupancy
Delay Time	Time after activating the luminaire the sensor is on
Daylight recognition	On/Off Detection on the sensor No dimming
Stand-by time	Set a stand-by time thanks to the corridor functionality
Dimming level	Set the dimming level using the corridor functionality

### Ordering guide

Description	SAP Code
BORIS FLEX S 20000 840	96700008
BORIS FLEX L 30000 840	96700009
BORIS FLEX STIRRUP	96700010
BORIS PLUG&PLAY E3 KIT 5.5W LIFEPO4	96635569
BORIS PLUG&PLAY MWS SENSOR GEN2	96635768
BORIS PLUG&PLAY PIR SENSOR GEN2	96635769
BORIS SENSOR REMOTE CONTROL GEN2	96635770

MWS: microwave presence sensor  
PIR: infrared sensor

### Emergency

Our latest PLUG&PLAY E3 Emergency Kit (96635569) comes with the latest LiFePO4 battery technology (including 3 year battery warranty).

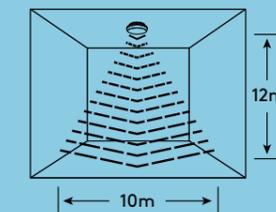
### Presence & Daylight sensor

Boris' PLUG&PLAY sensor options will ensure that light is only delivered when needed by detecting motion and daylight via microwave or infrared technology. All parameters need to be adjusted by using the remote control (available as accessory). Thanks to the corridor functionality, setting a stand-by time and altering the dimming level is now possible for Boris.

Easy to install	Simply plug sensor onto connector in the middle of the luminaire
Easy to control	Adjustable via remote control (mandatory for installation)
Easy to use	The light is generated automatically wherever it is needed

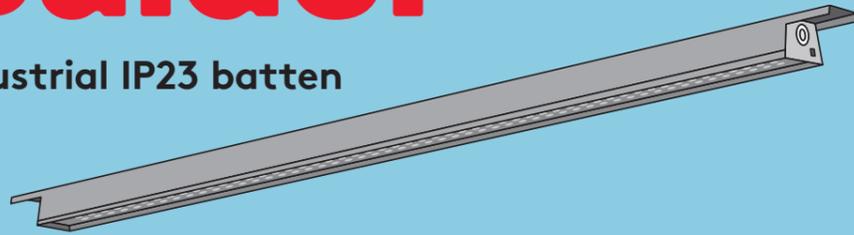
### Sensor range

at 100% sensitivity



# Balder

## Industrial IP23 batten

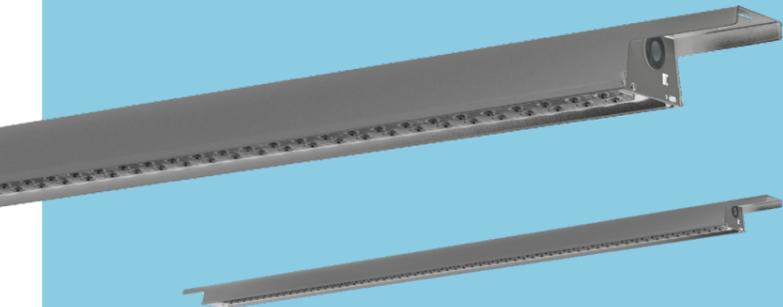


Ideal for:  
Warehouses, distribution  
centres, storages, production  
plants and commercial

Perfect for retrofit and new installations, Balder has a classic IP23 design with a focus on quick and easy installation.



- Two different lens options for deep beam or batwing distribution
- Always through-wired 5 pole terminal block
- Suitable for surface mounting or catenary suspension (build-in option - no loose parts)
- Quick and easy installation via maintained gear tray
- 1745 mm length makes it perfect for retrofit
- High efficacy: 9000lm model delivers 170lm/W, and the 12000lm model delivers 160lm/W



	L	W	H
BALDER 9000	1745	52	84
BALDER 12000	1745	52	84

Dimensions (mm)



### Specification

Electrical class	I
------------------	---

### Installation / Mounting

Mounting	Suitable for surface mounting or catenary suspension
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### Material / Finish

Body	Galvanized sheet steel
------	------------------------

### Light source information

Colour temperature	4000 K
Lumen	12000lm (75W), 9000lm (52W)
Efficiency	up to 170lm/W
Lifetime	100000 hours (@L70, Ta 25°C)
MacAdam (Initial)	3

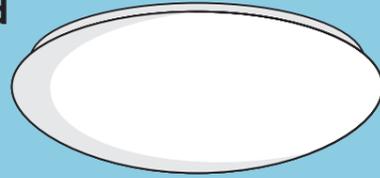
### Ordering guide

Description	SAP Code
BALDER 1745 IP23 12000 840 MB	96634219
BALDER 1745 IP23 9000 840 WB	96634221

# Lena

VARIO

## Circular IP44 LED Bulkhead



Ideal for:  
Stairwells, breakout area  
and circulation corridors

Slimline, indoor bulkhead ideal for corridors and stairwells.

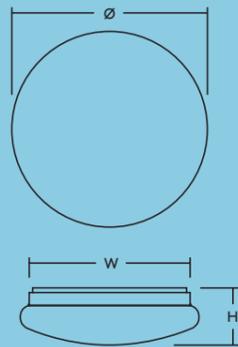


- VARIO Feature (Colour Temperature Switch): The ability to choose your colour temperature on site with the flick of a switch
- Available in 1400, 1900 and 2500lm light output
- Direct replacement for 2x18W, 2x26W and 2x36W CFL saving up to 55% energy
- Maximise energy savings using microwave sensor version
- High quality PMMA diffuser delivers homogenous light distribution
- Quick and easy installation, loop-in loop-out possible



	Ø	W	H
LENA LED 320	350	320	108
LENA LED 380	410	380	115

Dimensions (mm)



### Specification

Electrical class	II
Ambient operating temperature	-20 to +40°C
Driver	ENEC certified

### Installation / Mounting

Mounting	Suitable for wall or ceiling mounting Quick and easy installation thanks to the twist-and-lock opening mechanism and the piano key terminal for wires up to 2.5mm <sup>2</sup>
----------	---

### Material / Finish

Backplate	Steel, white finish
Diffuser	PMMA, opal

### Light source information

VARIO (Colour temperature switch)	3000K, 3500K, 4000K
Lumen	320mm 1400lm(15W) 380mm 1900lm(21W), 2500lm(30W)
Efficiency	up to 100lm/W
Lifetime	50000 hours (@L80, Ta 25°C)
MacAdam (Initial)	5

### Controllability (default)

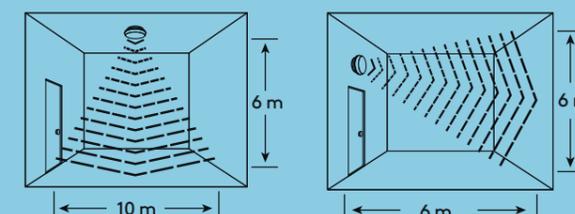
Sensitivity	10%, 50%, 75%, 100%
Time	5s, 90s, 5min, 15min
Lux	10lux, 20lux, 50lux, disable

### Presence sensor

Lena microwave sensor option will ensure that light is only delivered when needed. This sensor is a motion switch, which turns on the light on detection of movement, and turns off after a pre-selected hold-time when there are no people around. A daylight sensor is also built-in to prevent the light switching on when there is sufficient natural light.

### Sensor range

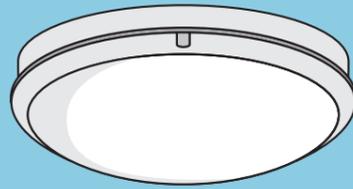
at 100% sensitivity



# Lara

VARIO FLEX

## Circular IP65 LED Bulkhead



**Ideal for:**  
Circulation corridors, stairwells,  
underpasses and public entrance areas

With a range of accessories, Lara is the ultimate choice for a range of indoor and outdoor settings.

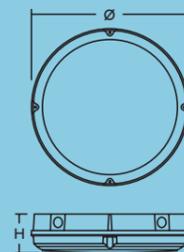


- **VARIO Feature (Colour Temperature Switch):** The ability to choose your colour temperature on site with the flick of a switch
- **FLEX Feature (Lumen Output Switch):** The flexibility to decide on your lumen package on site with the flick of a switch
- **Opal diffuser for homogeneous light effect and visual comfort**
- **Sealed to IP65 for protected exterior applications**
- **Robust construction up to IK10 impact resistance**
- **Optional with 3h emergency kit and sensor option (self test with manual option)**
- **Compatible with BESA Box**
- **Easy to program sensor version via dip switches directly on the sensor.** To suit a variety of indoor and outdoor applications



	∅	H
LARA LED 250	250	75
LARA LED 300	300	75

Dimensions (mm)



### Specification

Electrical class	II
Ambient operating temperature	-20 to +40°C (E3: 0 to +25°C)
Driver	ENEC certified

### Installation / Mounting

Mounting	Suitable for wall or ceiling mounting Quick and easy installation Suitable for BESA fixing
----------	--

### Material / Finish

Body	UV Stabilised white polycarbonate
Diffuser	UV Stabilised opal polycarbonate

### Light source information

VARIO (Colour temperature switch)	3000K, 3500K & 4000K
FLEX (Lumen switch)	250mm 800lm(7.5W), 1000lm(9.5W), 1200lm(11.5W) 300mm 1200lm(11W), 1800lm(17W), 2200lm(20.5W)
Efficiency	up to 115lm/W
Total emergency flux	210
Lifetime	50 000 hours (@L80, Ta 25°C)

### Controllability (default)

Detection Area	100% / 50%
Hold Time	5s (testing) / 5min / 15min / 30min
Standby level corridor function	10%
Standby period	0s / 5min / 15min / never off
Daylight Sensor	OFF: MWS only 5 on / 7,5 off lux: external pedestrian walkway 100 on / 150 off lux: Internal Circulation Areas (corridors and stairs), Stockrooms and Storerooms 200 on / 300 off lux: Internal Washrooms, Toilets and Cloakrooms
Mode	Microwave Sensor + Daylight / Photocell only



Bezel trim BLK



Bezel trim WH

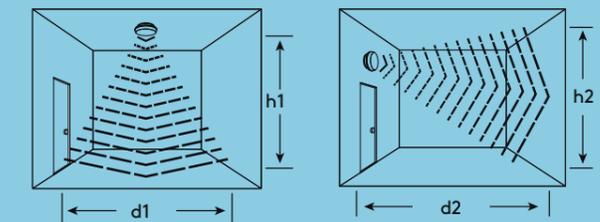
### Ordering guide

Description	SAP Code	
LARA VARIOFLEX 250 1200 830/35/40	96635284	
LARA VARIOFLEX 300 2200 830/35/40	96635286	
LARA VARIOFLEX 300 2200 830/35/40 MWS	96635287	
Accessories	WH	BLK
LARA VARIOFLEX 250 BEZEL TRIM	96635293	96635294
LARA VARIOFLEX 300 BEZEL TRIM	96635297	96635298
LARA E3 KIT SELFTTEST LiFePO4	96635292	

MWS: microwave presence sensor  
WH: white; BLK: black

### Sensor range

at 100% sensitivity

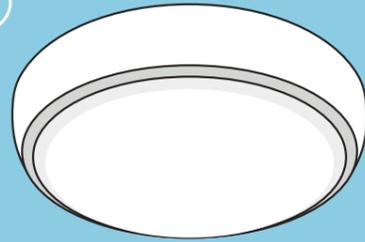


	h1	d1	h2	d2
100%	3m	10m	2m	6m
50%	3m	6m	2m	3m

# Tom

VARIO FLEX

## IP66 Bulkhead

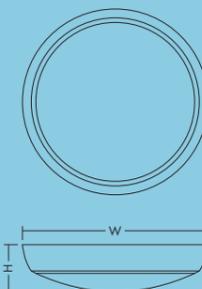


**Ideal for:**  
Circulation corridors,  
public entrance areas, stairwells,  
sanitary rooms and underpasses

Comfortable, flexible and variable both indoors and out



- **VARIO Feature (Colour Temperature Switch):** The ability to choose five different colour temperature on site with the flick of a switch
- **FLEX Feature (Lumen Output Switch):** The flexibility to decide on four lumen packages on site with the flick of a switch
- **Screwless, tamperproof design** prevents vandalism by being visually free from access points
- **Robust construction up to IK10 impact resistance**
- **Centered cable entry point** for easy installation
- **Maximise energy savings** using microwave sensor and corridor function (available as options)
- **Replaceable light engine and driver** extend the life of the product
- **JUST – adapt on-site to an emergency version** using the Just Emergency Plug&Play kit



	W	H
TOM	313	79

Dimensions (mm)

### Specification

Electrical class	II
Ambient operating temperature	-20 to +40°C
Driver	ENEC

### Installation / Mounting

Mounting	Wall, Ceiling, Interior, Outdoor
Installation	Tool free

### Material / Finish

Body	UV Stabilised PC
Diffuser	UV Stabilised PC

### Light source information

VARIO (Colour temperature switch)	3000K, 3500K, 4000K, 5700K, 6500K
FLEX (Lumen switch)	800lm, 1200lm, 1800lm, 2200lm
Efficiency	110lm/W
Total emergency flux	240
Lifetime	50 000 hours (@L80, Ta 25 °C)
MacAdam (Initial)	<5

### Controllability (MWS) (default)

Sensitivity	100%, 75%, 50%, 25%, 10%
Time	30min, 20min, 3min, 90s, 30s, 5s
Lux	50Lux, 25Lux, 10Lux, 2Lux, Disable

### Controllability (MWS COR) (default)

Sensitivity	100% / 50%
Time	5s (testing) / 5 min / 15 min / 30 min
Stand by level	10%
Stand by time	0s / 5 min / 15 min / never off
Daylight Sensor	OFF: MWS only

5 on / 7,5 off lux: external pedestrian walkway  
100 on / 150 off lux: Internal Circulation Areas (corridors and stairs), Stockrooms and Storerooms

200 on / 300 off lux: Internal Washrooms, Toilets and Cloakrooms

Mode **Microwave Sensor + Daylight / Photocell only**

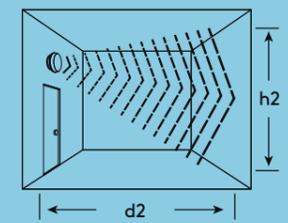
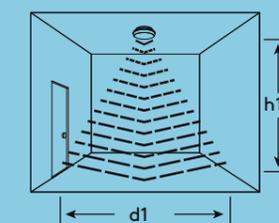
### Ordering Guide

Description	SAP Code
TOM VF 2200 830/35/40/57/65 WH	96637988
TOM VF 2200 830/35/40/57/65 WH MWS	96637989
TOM VF 2200 830/35/40/57/65 WH MWSCOR	96637990
Accessories	
JUST E3/E3T CIR LiFePO4 F1	96638038
Spare Parts	
Driver	
DRV TE TOM VF/LARA VF2 V1*	59013727
DRV TE TOM VF/LARA VF2 MWSCOR V1**	59013728
Light Engine	
LE TE TOM VF/LARA VF2 V1	59013729

MWS: microwave presence sensor  
MWSCOR: microwave presence sensor with corridor function  
DRV: spare driver  
LE: light engine  
WH: white  
\* suitable for use with 96637988 & 96638989  
\*\* suitable for use with 96637990

### Sensor range

at 100% sensitivity



#### MWS

	h1	d1	h2	d2
100%	4m	10m	8m	8m
50%	3m	8m	6m	7m

#### MWS COR

	h1	d1	h2	d2
100%	3m	10m	2m	6m
50%	3m	6m	2m	3m

# Leonie

VARIO FLEX

## LED Floodlight



Ideal for:  
Building Facades, car parks,  
footpaths and gardens



Small yet extremely powerful,  
Leonie lights up dark outdoor areas.

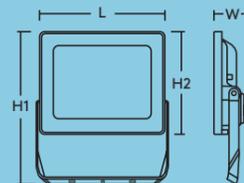


- VARIO Feature (Colour Temperature Switch): The ability to choose your colour temperature on site with the flick of a switch
- FLEX Feature (Lumen Output Switch): The flexibility to decide on your lumen package on site with the flick of a switch
- Compatible with THORNeco cable system
- Very light-weight, compact and streamline design
- Tilted universal mounting bracket allows easy surface mounting
- Converts easily to sensor version using LEONIE PLUG&PLAY sensor accessory



	L	W	H1	H2
LEONIE IP65 16W	164	48	199	134
LEONIE IP65 40W	177	56	214	148

Dimensions (mm)



### Specification

Electrical class	I
Ambient operating temperature	-30 to +40°C

### Installation / Mounting

Mounting	Suitable for wall or ceiling mounting Pre-wired with a 55 cm long mains cable and open cable ends Ground spike and wall bracket available as accessories
----------	--

### Material / Finish

Body	Aluminium, powder coated, RAL 7016 (anthracite grey)
Bracket	Carbon steel, RAL 7016 (anthracite grey)
Front cover	glass

### Light source information

VARIO (Colour temperature switch)	3000K, 3500K & 4000K
FLEX (Lumen switch)	16W: 1000lm; 1500lm; 2000lm 40W: 3300lm; 4000lm; 5000lm
Efficiency	up to 143lm/W
Lifetime	50 000 hours (@L80, Ta 25°C)
MacAdam (Initial)	5

### Controllability (default)

Sensitivity	10%, 50%, 75%, 100%
Time	5s, 90s, 5min, 15min
Lux	2lux, 10lux, 50lux, disable

### Presence sensor

The optional sensor will ensure that light is only delivered when needed. The motion detection range and time duration is fully adjustable, with the additional benefit of a daylight sensor for illuminance levels between 2 and 50 lux.



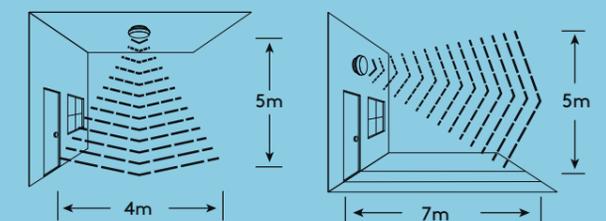
### Ordering guide

Description	SAP Code
LEONIE VARIOFLEX IP65 16W 830/35/40	96635663
LEONIE VARIOFLEX IP65 40W 830/35/40	96635647
<b>Accessories</b>	
LEONIE VARIOFLEX PLUG&PLAY MWS	96635648
LEONIE VARIOFLEX WALL BRACKET	96635746
LEONIE VARIOFLEX SPIKE	96635649
<b>Compatible THORNeco cable system</b>	
MAINS ADAPTOR	96633588
EXTERNAL INTEGRATOR	96633589
EXTENSION CABLE - 1m	96633584
EXTENSION CABLE - 2m	96633585
EXTENSION CABLE - 5m	96633586
EXTENSION CABLE - 10m	96633587
CONNIE IP68 CONNECTOR	96632722
T-CONNECTOR	96633590
MULTICONNECTOR	96633591

MWS: microwave presence sensor

### MWS Sensor range

at 100% sensitivity



# Mary

## LED Garden Floodlight with Earth Spike

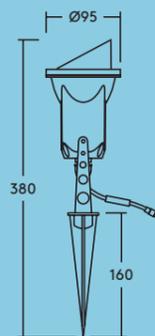


Ideal for:  
Building facades and gardens

Highlight your surroundings with Mary, our flexible garden floodlight.



- Reflector for a sharp, defined light beam
- Supplied with a heavy duty rubber connection cable with integrated waterstop
- Compatible with THORNeco cable system
- Adaptor with open leads included
- High corrosion resistance (C4) and water ingress protection
- Compatible with all the PLUG&PLAY outdoor sensor accessories (sensor, daylight, photocell)



### Specification

Electrical class	I
Ambient operating temperature	-20 to +50°C

### Installation / Mounting

Mounting	Earth spike included Pre-wired with mains cable and adapter with open leads (1.5 mm <sup>2</sup> ) H07RN-F connection cable Salt resistant according to corrosion class C4
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### Material / Finish

Body	Aluminium die-cast (RAL 9005)
Screws	Stainless steel AISI 316 with GEOMET® 500 coating
Front cover	Clear glass

### Light source information

Colour temperature	3000K
Lumen	500lm (8W)
Efficiency	up to 62lm/W
Lifetime	50 000 hours (@L80, Ta 25°C)
CRI	80



### Ordering guide

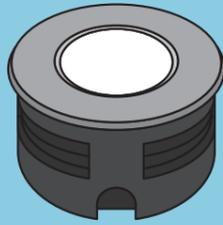
Description	SAP Code
MARY GARDEN SPOT IP66 500 830	96633583
<b>Accessories</b>	
ECO PIR SENSOR	96633592
ECO PC SENSOR	96634061

### Compatible THORNeco cable system



# Rosy

## LED Walkover Inground Luminaire



Ideal for:  
Footpaths and gardens

Subtle and harmonious Rosy illuminates the way,  
making the perfect guide.



IP66/67

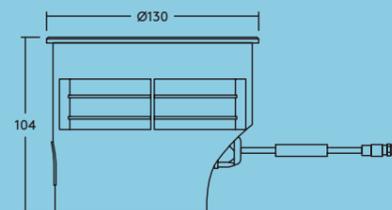


IK09



C4

- Strongly diffused uniform light surface to reduce perceived glare
- High corrosion resistance (C4) and water ingress protection
- Supplied with a heavy duty rubber connection cable with integrated waterstop
- Compatible with THORNeco cable system
- Adaptor with open leads included
- Natural colour temperature provides comfort for pathway users
- Low overall height decreases required space and depth for installation
- Suitable for installation in concrete/soil/wood
- Compatible with all the PLUG&PLAY outdoor sensor accessories (sensor, daylight, photocell)



### Specification

Electrical class	I
Ambient operating temperature	-20 to +50°C

### Installation / Mounting

Mounting	Suitable for installation in concrete/soil/wood Pre-wired with mains cable and adapter with open leads (1.5 mm <sup>2</sup> ) H07RN-F connection cable Salt resistant according to corrosion class C4
----------	--

### Material / Finish

Body	Stainless steel AISI 316, aluminium die-cast
Screws	Hex socket, stainless steel AISI 316 with GEOMET® 500 coating
Front cover	Tempered frosted glass
Sleeve	PC

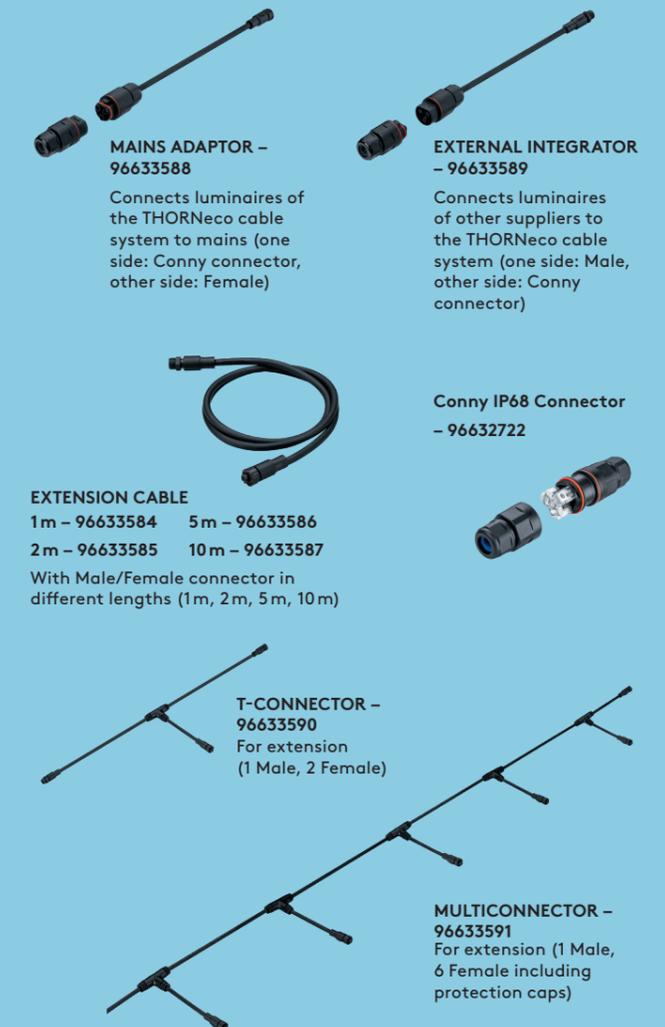
### Light source information

Colour temperature	3000K
Lumen	350lm (6W)
Efficiency	up to 58lm/W
Lifetime	50 000 hours (@L80, Ta 25°C)

### Ordering guide

Description	SAP Code
ROSY INGROUND IP67 350 830	96633582
<b>Accessories</b>	
ECO PIR SENSOR	96633592
ECO PC SENSOR	96634061

### Compatible THORNeco cable system



# Holly

Wall-mounted LED  
Outdoor Luminaire



Ideal for:  
Building facades and residential

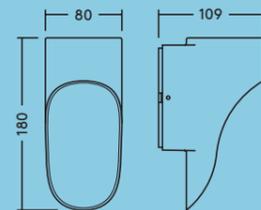
Elegant in appearance, Holly is the perfect match for any wall.



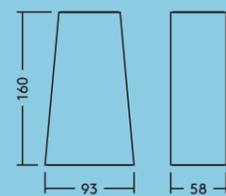
- Elegant and timeless design
- 3 different designs (round, square, can)
- Up/downlight versions available to create wallwash effect
- Zero uplight versions available to reduce light pollution
- Special designed back plate provides mounting flexibility
- Fast and easy installation thanks to a well positioned 3 pole terminal block



Can version



Round and square version



## Specification

Electrical class	I
Ambient operating temperature	-20 to +40°C

## Installation / Mounting

Mounting Fast and easy installation thanks to a well positioned 3 pole terminal block  
Special designed back plate provides more flexibility in mounting



## Material / Finish

Body	Aluminium die-cast RAL7016
Front cover	Clear glass

## Light source information

Colour temperature	3000 K
Lumen	250 – 500lm(8W)
Lifetime	50 000 hours (@L80, Ta 25°C)

## Light output

	Round	Square	Can

\*No light pollution, zero uplight

## Ordering guide

Description	SAP Code
HOLLY CONE ROUND DOWN IP65 300 830	96633683
HOLLY CONE ROUND UP/DOWN IP65 500 830	96633684
HOLLY CONE SQUARE DOWN IP65 300 830	96633685
HOLLY CONE SQUARE UP/DOWN IP65 500 830	96633686
HOLLY WALL CAN DOWN IP65 250 830	96633687

# Leo FLEX

## High Power LED Floodlight



Ideal for:  
Building facades, car parks,  
footpaths and loading bays

Extremely powerful and resilient, Leo adds safety in dark areas.

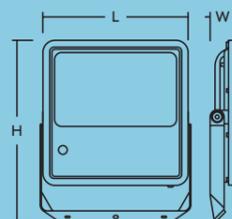


- **FLEX Feature (Lumen Output Switch):** The flexibility to decide on your lumen package on site with the flick of a switch
- Asymmetrical light distribution – ideal for building facades and area lighting
- 4 different sizes available
- Integrated photocell for automatic light from dusk til dawn
- Corrosion Class C4 for reliable use in more environmentally challenging areas
- Light-weight and slim design
- Tilted universal mounting bracket allows for flexibility in positioning
- Breather membrane to prevent water ingress
- Pre-assembled with 1m cable including Conny Connector for tool free, fast and safe wiring
- Surge protection upto 10 kV



	L	W	H
LEO FLEX IP66 80W	330	56	359
LEO FLEX IP66 120W	330	56	419
LEO FLEX IP66 190W	380	56	469
LEO FLEX IP66 300W	523	72	634

Dimensions (mm)



### Specification

Electrical class	I
Ambient operating temperature	-30 to +50°C

### Installation / Mounting

Mounting	Suitable for wall or ceiling mounting
	Quick and easy installation thank to universal mounting bracket (0-300°)
	Preassembled with 1m cable including Conny Connector
	FLEX (lumen output) switch easily accessed at the back of the product



### Material / Finish

Body	Aluminium die-cast with 0.1% copper RAL7016 (anthracite grey)
Bracket	Carbon steel, RAL7016 (anthracite grey)
Cover	Tempered glass
Lens	PC

### Light source information

Colour temperature	3000 K & 4000 K
FLEX (Lumen switch)	@ 4000 K 80 W: 7500 lm; 9000 lm; 10 000 lm 120 W: 10 000 lm; 12 500 lm; 15 000 lm 190 W: 15 000 lm; 20 000 lm; 25 000 lm 300 W: 30 000 lm, 35 000 lm; 40 000 lm
Efficiency	up to 146 lm/W
Lifetime	50 000 hours (@L80, Ta 25°C)
MacAdam (Initial)	5

### Integral photocell (default)

No matter if Leo is used outside or even inside for different applications (e.g. industrial areas) its integral photocell can be easily controlled via switch on the back of the product. It enables four settings to suit your application.

Setting 1:	10 Lux on/30 Lux off
Setting 2:	25 Lux on/75 Lux off
Setting 3:	200 Lux on/300 Lux off
Setting 4:	Disable

### Ordering guide

Description	SAP Code
<b>3000 K</b>	
LEO FLEX IP66 80W 830 PC	96635301
LEO FLEX IP66 120W 830 PC	96635302
LEO FLEX IP66 190W 830 PC	96635303
LEO FLEX IP66 300W 830 PC	96635304
<b>4000 K</b>	
LEO FLEX IP66 80W 840 PC	96635305
LEO FLEX IP66 120W 840 PC	96635306
LEO FLEX IP66 190W 840 PC	96635307
LEO FLEX IP66 300W 840 PC	96635308

# Iris

## SelfTest Emergency Downlight



**Ideal for:**  
Residential, food and non-food retail, general circulation, corridors, office/meeting rooms, schools/universities and warehouses

Reliable and always ready, Iris will guide you through the dark.



- Automatic self-tests to ensure functionality
- Based on the latest technology with lithium iron phosphate battery (LiFePO4) for 3h emergency operation
- Two light distributions available: AntiPanic and Escape
- Optimised for large spacing
- Optional box for surface mounting

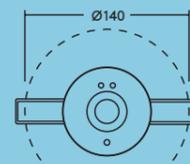
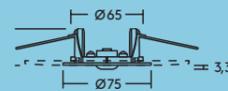


ANTIPANIC



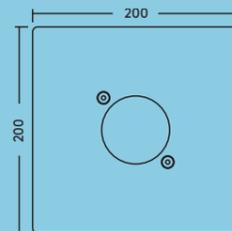
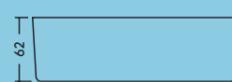
ESCAPE

Iris:



Ø67-130

Surface Mount Box:



### Options

Iris – Choose between two light distributions to add maximum safety even within a large space



#### Light distribution ANTIPANIC

For antipanic general illumination with min 0.5lx



#### Light distribution ESCAPE

For escape route lighting with min 1lx

### Planning recommendation

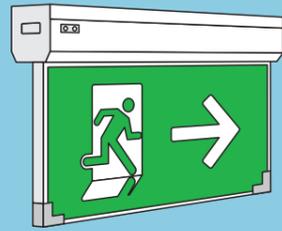
	<b>Antipanic – 0.5lx</b>	
2.0 m	5.8	14.2
2.5 m	5.6	15.8
3.0 m	4.6	16.5
3.5 m	4.4	15.9
4.0 m	4.3	13.6
4.5 m	4.0	12.8
	<b>Escape – 1lx</b>	
2.0 m	6.6	14.9
2.5 m	7.4	17.3
3.0 m	7.8	19.4
3.5 m	7.6	20.9
4.0 m	7.0	21.9
4.5 m	6.6	22.1

### Ordering guide

Description	SAP Code
IRIS ANTIPANIC SELFTEST E3 LiFePO4	96635650
IRIS ESCAPE SELFTEST E3 LiFePO4	96635651
IRIS SURFACE MOUNT BOX	96635652
IRIS REPLACEMENT BATTERY LiFePO4	96635653

# Nina

## SelfTest Exit Sign



**Ideal for:**  
Residential, food and non-food retail, general circulation, corridors, office/meeting rooms, schools/universities and warehouses

Reliable and ever-present, Nina will show you the way out.



LiFePO4



guarantee on battery

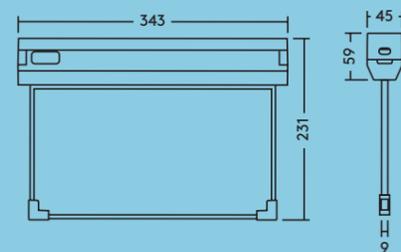
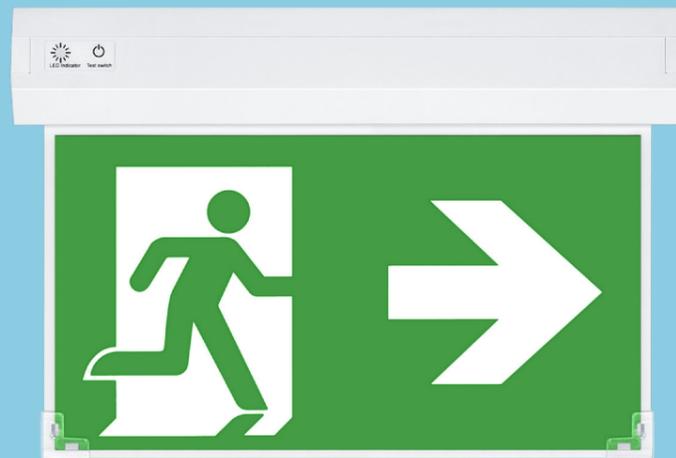


Automatic self-tests

- Automatic self-tests to ensure functionality (includes option to change to manual test)
- Based on the latest technology with lithium iron phosphate battery (LiFePO4) for 3h emergency operation
- With four pictograms included one product gives you the versatility to

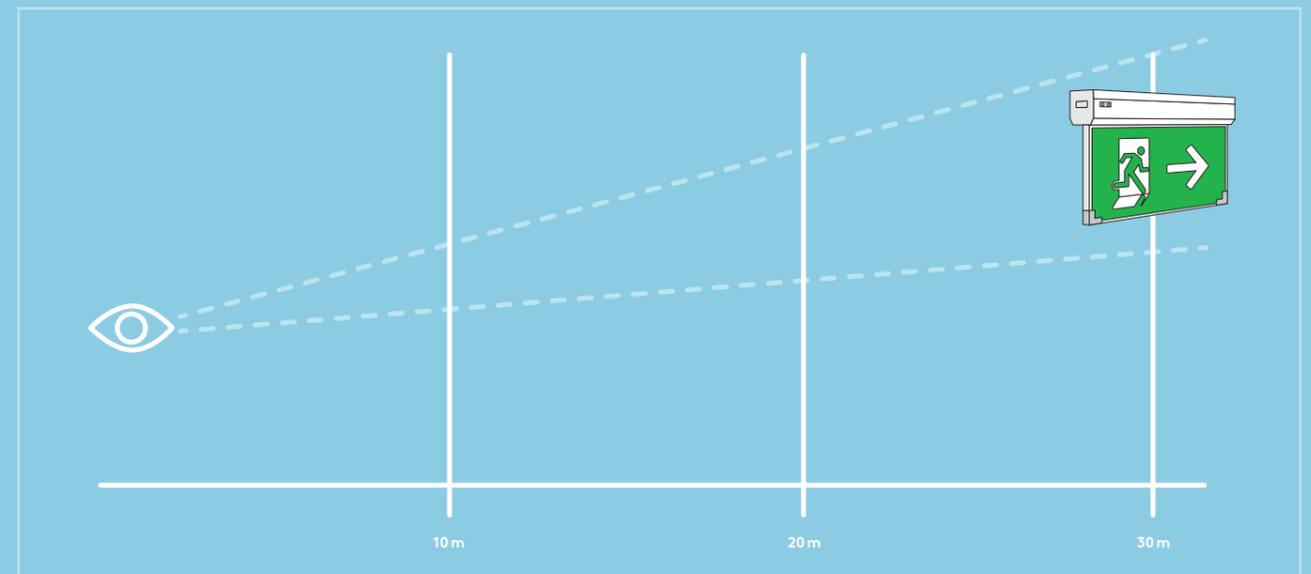
choose the direction you need (ability to be double-sided)

- Operation mode: maintained or non maintained
- Mounting on Ceiling or Wall, 90°
- Viewing range 30 m



### Ordering guide

Description	SAP Code
NINA 30M SELFTEST E3 LiFePO4	96635654
NINA REPLACEMENT BATTERY LiFePO4	96635655



# Sam

## SelfTest Emergency Bulkhead

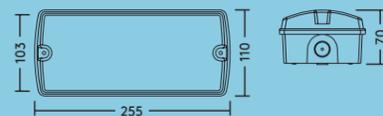


Ideal for:  
Residential, food and non-food retail, general circulation, corridors, office/meeting rooms, schools/universities and warehouses

Reliable and ever-present, Sam will show you the way through the dark.



- Automatic self-tests to ensure functionality
- Based on the latest technology with lithium iron phosphate battery (LiFePO4) for 3h emergency operation
- With four pictograms included one product gives you the versatility to choose the direction you need
- Operation mode: maintained or non-maintained
- Mounting on Ceiling or Wall
- Viewing range 20 m

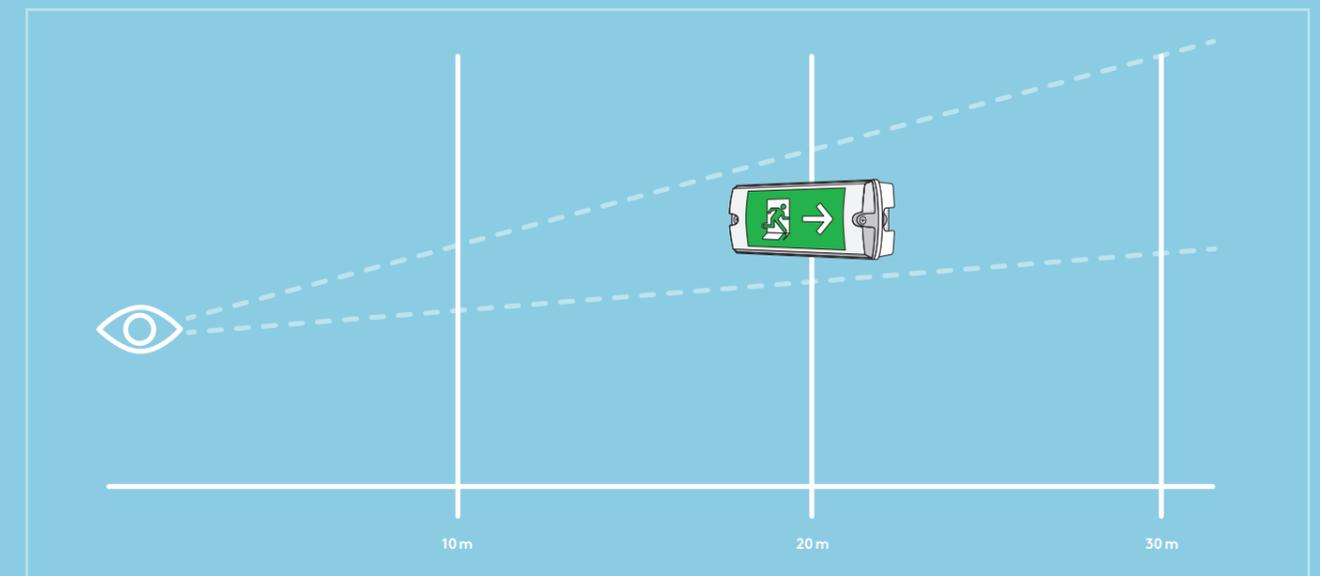


### Planning recommendation

	<b>0.5lx</b>	
2.0 m	3.5	8.8
2.5 m	3.8	9.6
3.0 m	4.0	10.3
3.5 m	4.1	10.8
4.0 m	4.2	11.2
4.5 m	4.3	11.6
	<b>1lx</b>	
2.0 m	2.8	7.1
2.5 m	2.9	7.6
3.0 m	3.0	8.0
3.5 m	3.0	8.3
4.0 m	2.9	8.5
4.5 m	2.7	8.6

### Ordering guide

Description	SAP Code
SAM 20M SELFTEST E3 LiFePO4	96635656
SAM REPLACEMENT BATTERY LiFePO4	96635657



# Just Emergency

## PLUG&PLAY E3 Kit



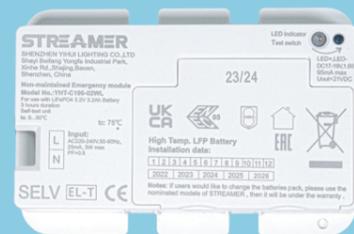
It has never been easier and more convenient to convert a luminaire for emergency operation.

- These kits simplify emergency lighting conversion with a quick and easy PLUG&PLAY solution with Self Test or Manual Test. Eliminating the complexity from emergency lighting
- The Just Emergency Kit consists of an Emergency LED driver, a LiFePO4 battery for 3h emergency operation, an indicator LED and a test switch button
- Powered by a lithium iron phosphate (LiFePO4) battery, this kit outlasts NiCd and NiMH alternatives, offering safety, longevity and a lower environmental impact
- Fast and convenient battery replacement

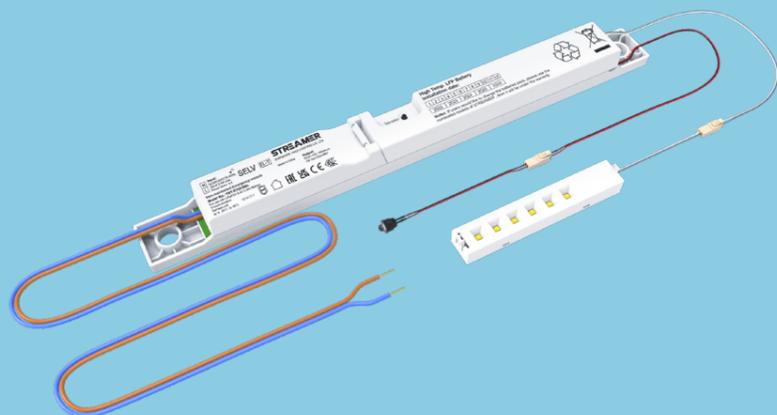
1



3



2



### Just E3 Kit with SELF TEST

The Emergency Kit carries out self-tests automatically to ensure its functionality. The self-tests cover 3 types of tests:

#### Initial test

As soon as the emergency kit is connected, the Initial test will start automatically. In case of a failure the LED will flash red, otherwise the charge mode will start

#### Functional test

Refers to charging, discharging and the functioning of load. Carried out for 10 seconds automatically every 30 calendar days.

#### Duration test

Refers to the test of batteries' capacity. Carried out every 180 calendar days.

#### Rest mode

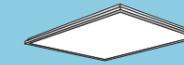
Rest mode can be initiated during emergency mode by pressing test switch longer than 3 seconds. The rest mode will be exited automatically after reconnect AC mains.

#### The Battery

Please note: If mains supply is off during self-test period, emergency conversion module would terminate self-test immediately and go into emergency mode. Self-test is under the regulation of EN62034.

### Compatible with

Anna



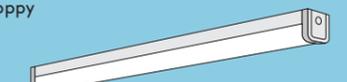
Julie



Maya



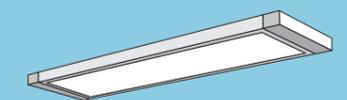
Poppy



Boris



Roxy



Amy



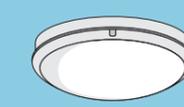
Zoe



Lily



Lara



Tom



### Ordering guide

Description	Manual test	Self test	Compatible with	Battery Warranty	Spare Battery Code	SAP Code
JUST E3 LINEAR P&P KIT SELF TEST LiFePO4	X	X	Julie*, Poppy	3	59014258	96700027
JUST E3 PLUG&PLAY KIT MANUAL TEST LiFePO4	X		Anna, Amy, Zoe, Lily, Maya	3	59011337	96635766
JUST E3 PLUG&PLAY KIT SELF TEST LiFePO4		X	Anna, Amy, Zoe, Lily, Maya	3	59011337	96634428
JUST E3/E3T CIR LiFePO4 F1	X	X	Tom, Toby, Lena	3	96635658	96638038
LARA/SARA E3 KIT SELF TEST LiFePO4	X	X	Lara	3	96635658	96635292
BORIS PLUG&PLAY E3 KIT 5.5W LiFePO4	X		Boris	3	59014259	96635569
ROXY E3 PLUG&PLAY	X		Roxy	3	59014260	96634877

# Accessories

For outdoor applications



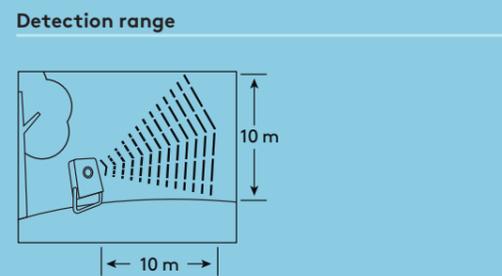
## PIR Sensor



- Sensor to detect motion in correlation with daylight level
- Including remote control to adapt sensor settings
- Earth spike included, suitable for wall-mounting
- Reliable on/off function thanks to infrared technology
- Ambient temperature: -20 to +40°C
- Switching load: 800W
- Connection via THORNeco cable system or adaptor with open leads (included)
- Compatible with THORNeco cable system

Ordering guide	
Description	SAP Code
ECO PIR SENSOR	96633592

Controllability	
Time	10 s, 90 s, 5 min, 10 min, 15 min, 20 min, 30 min
Lux	10 lux, 50 lux, 100 lux, 200 lux, 500 lux, 1000 lux, 2000 lux

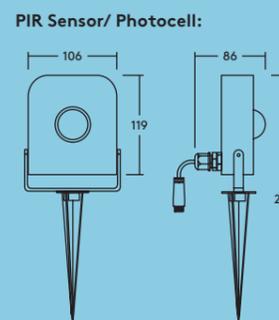


## Photocell



- Detection of daylight/brightness level
- Switch to determine on which brightness level lights should turn on
- Earth spike included, suitable for wall-mounting
- Ambient temperature: -20 to +40°C
- Switching load: 200W
- Connection via THORNeco cable system or adaptor with open leads (included)
- Compatible with THORNeco cable system

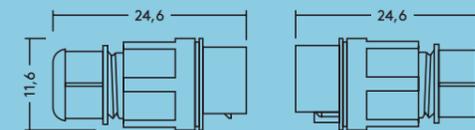
Ordering guide	
Description	SAP Code
ECO PC SENSOR	96634061



## Conny IP68 Connector



- Quick connector 3 pole
- Suitable for outside and inground use
- Cable diameter 6.5 - 12 mm
- Rated cross-section rigid, single and fine stranded 1 - 2.5 mm<sup>2</sup>



Ordering guide	
Description	SAP Code
CONNY IP68 QUICK CONNECTOR 16A 3-POL	96632722

# Accessories

For outdoor applications

## Cables & Connectors



- 3 pole
- High mechanical strength
- Flexible cable H07RN-F 3G 1.5 mm<sup>2</sup>
- Cable suitable for outside and inground use

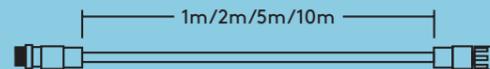
### Ordering guide

Description	SAP Code
ECO EXTENSION CABLE 1M	96633584
ECO EXTENSION CABLE 2M	96633585
ECO EXTENSION CABLE 5M	96633586
ECO EXTENSION CABLE 10M	96633587
ECO MAINS ADAPTOR	96633588
ECO EXT INTEGRATOR	96633589
ECO T-CONNECTOR	96633590
ECO MULTICONNECTOR	96633591



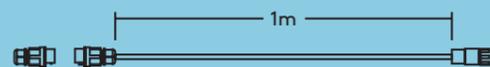
### Extension cable

with Male/Female connector in different lengths (1m, 2m, 5m, 10m)



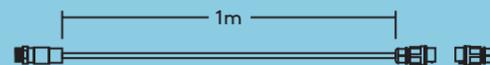
### Mains adaptor

Connects luminaires of the THORNeco cable system to mains (one side: Conny connector, other side: Female)



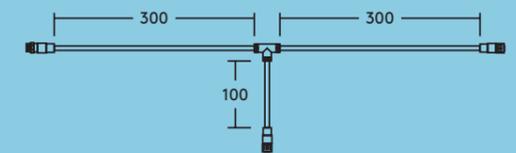
### External integrator

Connects luminaires of other suppliers to the THORNeco cable system (one side: Male, other side: Conny connector)



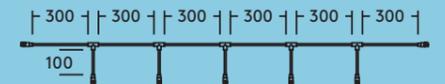
### T-Connector

for extension (1 Male, 2 Female)



### Multiconnector

for extension (1 Male, 6 Female including protection caps)



# How It Works



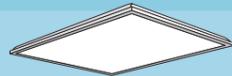
## VARIO and FLEX

### Amy



Size	CCT	Lumen	Wattage	Efficiency	Flex 1 2 3
100 mm	@ 4000 K & 3500 K	700 lm	6 W	117 lm/W	100%
		460 lm	4 W	116 lm/W	
	@ 3000 K	650 lm	6 W	103 lm/W	
150 mm	@ 4000 K & 3500 K	1500 lm	13 W	115 lm/W	100%
		1200 lm	10 W	120 lm/W	75%
		950 lm	8 W	118 lm/W	65%
	@ 3000 K	1450 lm	13 W	112 lm/W	100%
		1150 lm	10 W	115 lm/W	75%
		900 lm	8 W	113 lm/W	65%
190/200 mm	@ 4000 K & 3500 K	1950 lm	17 W	115 lm/W	100%
		1600 lm	14 W	114 lm/W	80%
		1450 lm	12 W	121 lm/W	70%
	@ 3000 K	1900 lm	17 W	112 lm/W	100%
		1550 lm	14 W	111 lm/W	80%
		1350 lm	12 W	112 lm/W	70%

### Anna



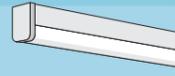
Size	CCT	Lumen	Wattage	Efficiency	Flex 1 2 3
596x596 mm, 622x622 mm, 1200x300 mm	@ 4000 K & 3500 K	4400 lm	35 W	126 lm/W	100%
		4000 lm	31 W	126 lm/W	
		3750 lm	29 W	129 lm/W	
		3000 lm	23 W	130 lm/W	
		4100 lm	35 W	117 lm/W	
	@ 3000 K	3650 lm	31 W	118 lm/W	
		3400 lm	29 W	117 lm/W	
		2700 lm	23 W	117 lm/W	
		90%			
		85%			
1200x600 mm	@ 4000 K & 3500 K	6600 lm	47 W	140 lm/W	100%
		5600 lm	40 W	140 lm/W	
		4600 lm	32 W	144 lm/W	
		3600 lm	25 W	144 lm/W	
		6000 lm	47 W	127 lm/W	
	@ 3000 K	5100 lm	40 W	127 lm/W	
		4000 lm	32 W	125 lm/W	
		3175 lm	25 W	127 lm/W	
		85%			
		70%			

### Boris



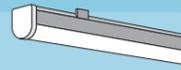
Size	CCT	Lumen	Wattage	Efficiency	Flex 1 2 3
S	@ 4000 K	20 000 lm	130 W	154 lm/W	100%
		16 000 lm	100 W	160 lm/W	80%
		12 500 lm	78 W	160 lm/W	60%
L	@ 4000 K	30 000 lm	195 W	154 lm/W	100%
		25 000 lm	160 W	156 lm/W	80%
		21 000 lm	130 W	162 lm/W	70%

### Elsa



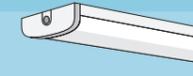
Size	CCT	Lumen	Wattage	Efficiency	Flex 1 2 3
450 mm	@ 4000 K	800 lm	9 W	89 lm/W	100%
		600 lm	7 W	86 lm/W	75%
		2100 lm	15 W	140 lm/W	50%
	@ 3500 K	800 lm	9 W	89 lm/W	100%
		600 lm	7 W	86 lm/W	75%
		2100 lm	15 W	140 lm/W	50%
600 mm	@ 4000 K	1200 lm	12 W	100 lm/W	100%
		900 lm	9 W	100 lm/W	75%
		3200 lm	22 W	145 lm/W	75%
	@ 3500 K	1200 lm	12 W	100 lm/W	100%
		900 lm	9 W	100 lm/W	75%
		3200 lm	22 W	145 lm/W	75%
1500 mm	@ 4000 K	6000 lm	45 W	133 lm/W	100%
		4500 lm	34 W	132 lm/W	75%
		3000 lm	22 W	136 lm/W	50%
	@ 3500 K	6000 lm	45 W	133 lm/W	100%
		4500 lm	34 W	132 lm/W	75%
		3000 lm	22 W	136 lm/W	50%

### Emma



Size	CCT	Lumen	Wattage	Efficiency	Flex 1 2 3
600 mm	@ 4000 K	2000 lm	16 W	125 lm/W	100%
		1500 lm	11 W	136 lm/W	75%
		1000 lm	8 W	125 lm/W	50%
		2100 lm	15 W	140 lm/W	100%
		1500 lm	11 W	136 lm/W	75%
	@ 3500 K	1500 lm	11 W	136 lm/W	75%
		1000 lm	8 W	125 lm/W	50%
		2000 lm	16 W	125 lm/W	100%
		1500 lm	11 W	136 lm/W	75%
		1000 lm	8 W	125 lm/W	50%
1200 mm	@ 4000 K	4000 lm	30 W	133 lm/W	100%
		3000 lm	22 W	136 lm/W	75%
		2000 lm	15 W	133 lm/W	50%
		4100 lm	30 W	137 lm/W	100%
		3100 lm	22 W	141 lm/W	75%
	@ 3500 K	3100 lm	22 W	141 lm/W	75%
		2100 lm	15 W	140 lm/W	50%
		4000 lm	30 W	133 lm/W	100%
		3000 lm	22 W	136 lm/W	75%
		2000 lm	15 W	133 lm/W	50%
1500 mm	@ 4000 K	6000 lm	45 W	133 lm/W	100%
		4500 lm	34 W	132 lm/W	75%
		3000 lm	22 W	136 lm/W	50%
		6100 lm	44 W	139 lm/W	100%
		4800 lm	34 W	141 lm/W	75%
	@ 3500 K	4800 lm	34 W	141 lm/W	75%
		3200 lm	22 W	145 lm/W	50%
		6000 lm	45 W	133 lm/W	100%
		4500 lm	34 W	132 lm/W	75%
		3000 lm	22 W	136 lm/W	50%

### Freja



Size	CCT	Lumen	Wattage	Efficiency	Flex 1 2 3
1200 mm	@ 4000 K	4200 lm	29 W	145 lm/W	100%
		3200 lm	22 W	145 lm/W	75%
		2100 lm	15 W	140 lm/W	50%
		4200 lm	29 W	145 lm/W	100%
		2100 lm	15 W	140 lm/W	50%
	@ 3500 K	3200 lm	22 W	145 lm/W	75%
		2100 lm	15 W	140 lm/W	50%
		4000 lm	29 W	138 lm/W	100%
		3200 lm	22 W	145 lm/W	75%
		2000 lm	15 W	133 lm/W	50%
1500 mm	@ 4000 K	7000 lm	47 W	149 lm/W	100%
		5250 lm	36 W	146 lm/W	75%
		3500 lm	24 W	146 lm/W	50%
		7000 lm	46 W	152 lm/W	100%
		5250 lm	35 W	149 lm/W	75%
	@ 3500 K	5250 lm	35 W	149 lm/W	75%
		3500 lm	23 W	149 lm/W	50%
		6600 lm	47 W	140 lm/W	100%
		4950 lm	36 W	137 lm/W	75%
		3300 lm	24 W	137 lm/W	50%

### Julie



Size	CCT	Lumen	Wattage	Efficiency	Flex 1 2 3
600 mm	@ 4000 K	2200 lm	18 W	122 lm/W	100%
		1500 lm	12 W	125 lm/W	65%
		1000 lm	8 W	125 lm/W	45%
1200 mm	@ 4000 K	4200 lm	34 W	124 lm/W	100%
		3200 lm	25 W	128 lm/W	75%
		2200 lm	18 W	122 lm/W	50%
1500 mm	@ 4000 K	6300 lm	51 W	124 lm/W	100%
		5200 lm	41 W	127 lm/W	80%
		4200 lm	33 W	127 lm/W	65%
		8600 lm	72 W	119 lm/W	100%
		6300 lm	50 W	126 lm/W	70%
		4200 lm	33 W	127 lm/W	65%

### Lara



Size	CCT	Lumen	Wattage	Efficiency	Flex 1 2 3
250 mm without Bezel	@ 4000 K	1200 lm	11.5 W	104 lm/W	100%
		1000 lm	9.5 W	105 lm/W	85%
		800 lm	7.5 W	107 lm/W	65%
		1200 lm	11.5 W	104 lm/W	100%
		1050 lm	9.5 W	111 lm/W	85%
	@ 3500 K	1050 lm	9.5 W	111 lm/W	85%
		850 lm	7.5 W	113 lm/W	65%
		1100 lm	11.5 W	96 lm/W	100%
		1000 lm	9.5 W	105 lm/W	85%
		800 lm	7.5 W	107 lm/W	65%

### Lara



Size	CCT	Lumen	Wattage	Efficiency	Flex 1 2 3
250 mm with Bezel	@ 4000 K	800 lm	11.5 W	70 lm/W	100%
		600 lm	9.5 W	63 lm/W	85%
		500 lm	7.5 W	67 lm/W	65%
		800 lm	11.5 W	70 lm/W	100%
		650 lm	9.5 W	68 lm/W	85%
	@ 3500 K	650 lm	9.5 W	68 lm/W	85%
		550 lm	7.5 W	73 lm/W	65%
		700 lm	11.5 W	61 lm/W	100%
		600 lm	9.5 W	63 lm/W	85%
		500 lm	7.5 W	67 lm/W	65%
300 mm without Bezel	@ 4000 K	2200 lm	20.5 W	107 lm/W	100%
		1800 lm	17 W	106 lm/W	85%
		1200 lm	11 W	109 lm/W	65%
		2250 lm	20.5 W	110 lm/W	100%
		1850 lm	17 W	109 lm/W	85%
	@ 3500 K	1850 lm	17 W	109 lm/W	85%
		1250 lm	11 W	114 lm/W	65%
		2050 lm	20.5 W	100 lm/W	100%
		1700 lm	17 W	100 lm/W	85%
		1150 lm	11 W	105 lm/W	65%
300 mm with Bezel	@ 4000 K	1800 lm	20.5 W	88 lm/W	100%
		1500 lm	17 W	88 lm/W	85%
		1000 lm	11 W	91 lm/W	65%
		1850 lm	20.5 W	90 lm/W	100%
		1550 lm	17 W	91 lm/W	85%
	@ 3500 K	1550 lm	17 W	91 lm/W	85%
		1050 lm	11 W	95 lm/W	65%
		1700 lm	20.5 W	83 lm/W	100%
		1400 lm	17 W	82 lm/W	85%
		950 lm	11 W	86 lm/W	65%

### Lena



Size	CCT	Lumen	Wattage	Efficiency	Flex 1 2 3
320 mm	@ 4000 K	1450 lm	15 W	97 lm/W	-
	@ 3500 K	1500 lm	15 W	100 lm/W	-
	@ 3000 K	1400 lm	15 W	93 lm/W	-
380 mm	@ 4000 K	1950 lm	21 W	93 lm/W	-
	@ 3500 K	2000 lm	21 W	95 lm/W	-
	@ 3000 K	1900 lm	21 W	90 lm/W	-
380 mm	@ 4000 K	2550 lm	30 W	85 lm/W	-
	@ 3500 K	2600 lm	30 W	87 lm/W	-
	@ 3000 K	2500 lm	30 W	83 lm/W	-

## Leo



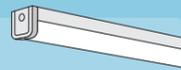
Size	CCT	Lumen	Wattage	Efficiency	Flex 1 2 3
359 mm	@ 3000 & 4000K	10 000lm	80 W	125 lm/W	100%
		9000lm	70 W	129 lm/W	75%
		7500lm	55 W	136 lm/W	60%
419 mm	@ 3000 & 4000K	15 000lm	120 W	125 lm/W	100%
		12500lm	90 W	139 lm/W	75%
469 mm	@ 3000 & 4000K	25 000lm	190 W	132 lm/W	100%
		2000lm	140 W	143 lm/W	75%
		15000lm	105 W	143 lm/W	60%
634 mm	@ 3000 & 4000K	40 000lm	300 W	133 lm/W	100%
		35000lm	250 W	140 lm/W	75%
		30000lm	205 W	146 lm/W	60%

## Leonie



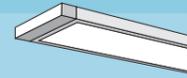
Size	CCT	Lumen	Wattage	Efficiency	Flex 1 2 3
134 mm	@ 4000K	2000lm	16 W	125 lm/W	100%
		1500lm	11 W	136 lm/W	75%
		1000lm	7 W	143 lm/W	50%
	@ 3500K	2100lm	15 W	140 lm/W	100%
		1500lm	11 W	136 lm/W	75%
		950lm	7 W	136 lm/W	50%
148 mm	@ 3000K	1900lm	16 W	119 lm/W	100%
		1400lm	11 W	127 lm/W	75%
		900lm	7 W	129 lm/W	50%
148 mm	@ 4000K	5000lm	40 W	125 lm/W	100%
		4000lm	30 W	133 lm/W	75%
		3300lm	23 W	143 lm/W	50%
	@ 3500K	7000lm	49 W	142 lm/W	100%
		4100lm	29 W	141 lm/W	75%
		3300lm	23 W	143 lm/W	50%
	@ 3000K	4600lm	53 W	88 lm/W	100%
		3750lm	30 W	125 lm/W	75%
		3000lm	23 W	130 lm/W	50%

## Poppy



Size	CCT	Lumen	Wattage	Efficiency	Flex 1 2 3
1200 mm	@ 4000K	5000	38	132 lm/W	100%
		3800	29	132 lm/W	75%
		2600	19	137 lm/W	50%
1500 mm	@ 4000K	6500	52	125 lm/W	100%
		5000	39	128 lm/W	75%
1800 mm	@ 4000K	3500	26	135 lm/W	50%
		8500	64	133 lm/W	100%
		6500	47	138 lm/W	75%
		4400	31	142 lm/W	50%

## Roxy



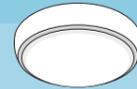
Size	CCT	Lumen	Wattage	Efficiency	Flex 1 2 3
1200 mm (Pendant)	@ 4000K	5500lm	45 W	122 lm/W	100%
		5225lm	43 W	121 lm/W	95%
		4950lm	41 W	121 lm/W	90%
		4675lm	38 W	121 lm/W	85%
1200 mm (Surface)	@ 4000K	4000lm	32 W	125 lm/W	100%
		3800lm	30 W	125 lm/W	95%
		3600lm	28 W	125 lm/W	90%
		3400lm	26 W	125 lm/W	85%
1500 mm (Surface)	@ 4000K	5450lm	43 W	127 lm/W	100%
		5177lm	41 W	127 lm/W	95%
		4905lm	39 W	127 lm/W	90%
		4633lm	37 W	127 lm/W	85%

## Sylvie



Size	CCT	Lumen	Wattage	Efficiency	Flex 1 2 3
88 mm	@ 3000K	550	6	92 lm/W	-
	@ 3500K	550	6	92 lm/W	-
	@ 4000K	550	6	92 lm/W	-

## Tom



Size	CCT	Lumen	Wattage	Efficiency	Flex 1 2 3
800 mm	@ 3000K	2100	20	105 lm/W	100%
		1700	16	106 lm/W	80%
		1150	11	105 lm/W	55%
		750	7.75	97 lm/W	35%
	@ 3500K, 4000K & 5700K	2200	20	110 lm/W	100%
		1800	16	113 lm/W	80%
		1200	11	110 lm/W	55%
		800	7.5	107 lm/W	35%

## Zoe



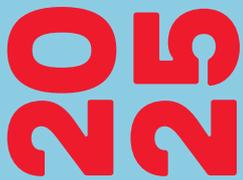
Size	CCT	Lumen	Wattage	Efficiency	Flex 1 2 3
130 mm	@ 4000K, 3500K & 3000K	700	6.5	108 lm/W	100%
		550	5	110 lm/W	75%
		330	3	110 lm/W	45%
165 mm	@ 4000K, 3500K & 3000K	1000	9.5	105 lm/W	100%
		850	8	106 lm/W	85%
		650	6	108 lm/W	65%
200 mm	@ 4000K, 3500K & 3000K	2000	19	105 lm/W	100%
		1600	15	107 lm/W	80%
		1200	11	109 lm/W	60%

# Icon Glossary

Icon	Description	Icon	Description
	VARIO Feature (Colour Temperature Switch): The ability to choose your colour temperature on site with the flick of a switch		Corrosion class
	FLEX Feature (Lumen Output Switch): The flexibility to decide on your lumen package on site with the flick of a switch		LiFeP04
	DALI: Suitable for emergency escape lighting systems acc. to EN 50172		3 years warranty
	JUST: adapt on-site to an emergency version using the Just Emergency PLUG&PLAY kit		5 years warranty
	Ingress Protection (IP)		SelfTest ICE 62034
	Impact Protection (IK)		Electrical class I
	Color Rendering Index (CRI)		Electrical class II
	Unified Glare Rating (UGR)		Electrical class III
	Sensor		Toolfree installation
	Energy efficient		
	Emergency		
	Through wired		
	Dimmable		
	Loop in - Loop out		
	Beam angle		
	Cutout dimensions		
	Kelvin		



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