



# **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.







# Hi, we are THORN

At THORN, we pride ourselves on having a comprehensive customers. Our OTC Wholesale offer – THORNeco – delivers great we care, starting with our new packaging which is 100 % recyclable starting from scratch the THORNeco range has a product to



### #EasyToTrust



### #EasyToSell



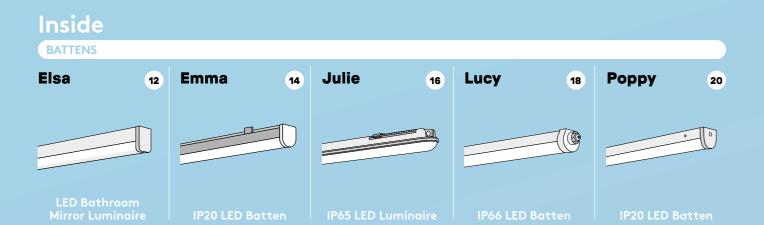
### #EasyToStock

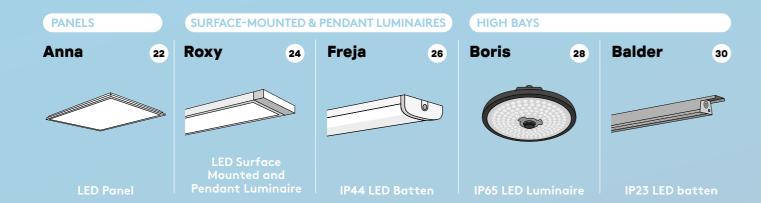


### #EasyToInstall



### #EasyToRecycle





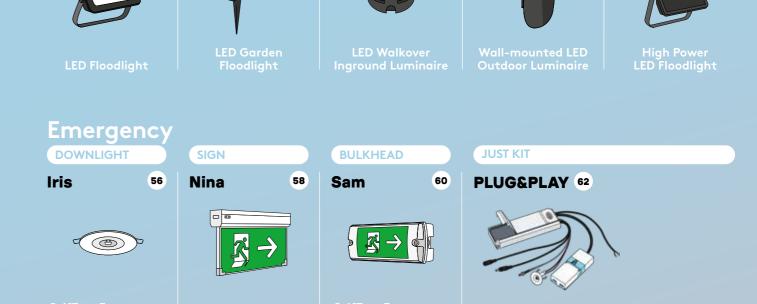




### Outside

Mary

Leonie



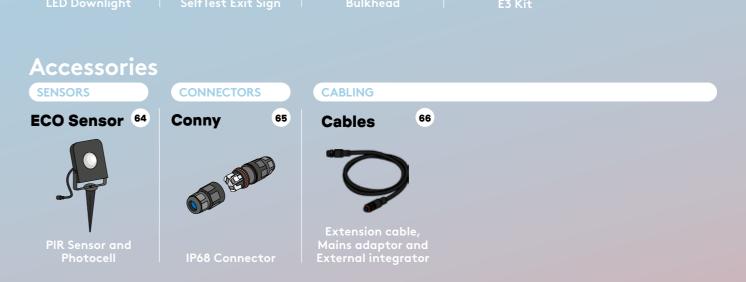
Rosy

50

Holly

52

Leo



## THORN **FEATURES**

THE FLEX **FEATURE** 



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

# I VARIO **FEATURE**



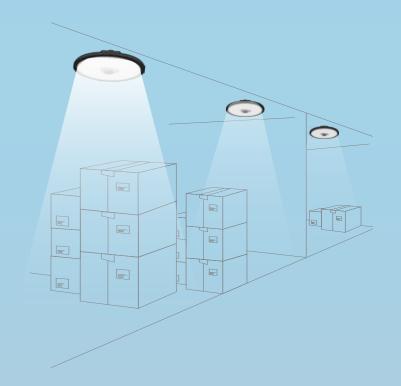




#EasyToInstall

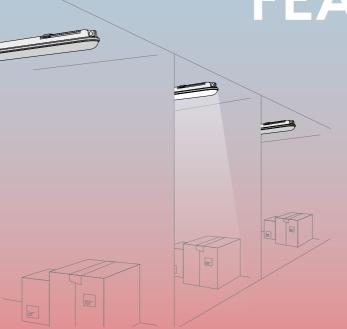
a switch on the luminaire.

#EasyToInstall



# THE JUST **FEATURE**

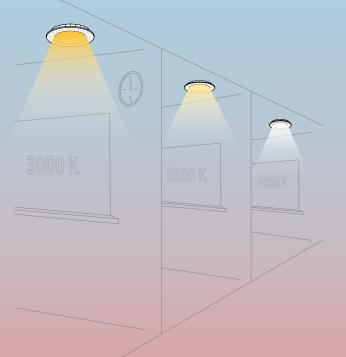




Easily convert standard products in to an emergency version using a simple plug and play kit.

One product, multiple uses: #EasyToStock #EasyToSell

product to an emergency version before or during install. #EasyTolnstall



# How It Works (REX)

### **VARIO** and FLEX

	Amy	/			
Size	ССТ	Lumen	Wattage	Efficiency	Flex 1 2 3
100	@3000 K, 3500 K & 4000 K	700 lm	7W	100 lm/W	-
150	@3000K, 3500K&	1000 lm	10 W	100 lm/W	-
150	4000 K	1500 lm	15 W	100 lm/W	-
200	@3000 K, 3500 K & 4000 K	2000 lm	20 W	100 lm/W	-

		Inna			
Size	сст	Lumen	Wattage	Efficiency	Flex 1 2 3
		4400 lm	36 W	122 lm/W	100%
	0.400014	4000 lm	33 W	121 lm/W	90%
	@4000K	3750 lm	30 W	125 lm/W	85%
		3000lm	24W	125 lm/W	70 %
		4500 lm	36W	125 lm/W	100%
596x596 mm,	O 7500 K	4100 lm	33 W	124lm/W	90%
622x622mm, 1200x300mm	@3500K	3850 lm	30 W	128 lm/W	85%
12000000111111		3050 lm	24W	128 lm/W	70 %
		4000lm	36 W	111 lm/W	100%
	@ 7000 K	3650 lm	33 W	110 lm/W	90%
	@3000K	3400 lm	30 W	114 lm/W	85%
		2750 lm	24W	114 lm/W	70 %

	Bor	is			
Size	ССТ	Lumen	Wattage	Efficiency	Flex 1 2 3
		20 000 lm	130 W	154lm/W	100%
S	@4000K	16000 lm	100W	160 lm/W	80%
		12500 lm	78 W	160 lm/W	60%
		30000lm	195 W	154 lm/W	100%
L	@4000K	25 000 lm	160 W	156 lm/W	80%
		21000 lm	130 W	162 lm/W	70 %

	VARIO	

Default in red

	<b>D</b> El	sa			
Size	ССТ	Lumen	Wattage	Efficiency	Flex 1 2 3
	O 4000 K	800 lm	9W	89 lm/W	100%
	@4000K	600 lm	7W	86lm/W	75 %
450	@ 3500 K	800 lm	9W	89 lm/W	100%
450 mm		600 lm	7W	86lm/W	75 %
	@3000K	750 lm	9W	83 lm/W	100%
		500 lm	7W	79 lm/W	75 %
	O 4000 K	1200 lm	12 W	100 lm/W	100%
	@4000K	900 lm	9W	100 lm/W	75 %
<b></b>	0.75001/	1200 lm	12 W	100 lm/W	100%
600 mm	@3500K	900 lm	9W	100 lm/W	75 %
	O 7000 K	1100 lm	12 W	92 lm/W	100%
	@3000K	850 lm	9W	94lm/W	75 %

	E	mma			
Size	ССТ	Lumen	Wattage	Efficiency	Flex 1 2 3
		2000 lm	16 W	125 lm/W	100%
	@4000K	1500 lm	11 W	136 lm/W	75 %
		1000 lm	8W	125 lm/W	50%
		2100 lm	15 W	140 lm/W	100%
600 mm	@3500K	1500 lm	11 W	136 lm/W	75 %
		1000 lm	8W	125 lm/W	50%
		2000 lm	16 W	125 lm/W	100%
	@3000K	1500 lm	11 W	136 lm/W	75 %
		1000 lm	8W	125 lm/W	50%
	@4000K	4000 lm	30 W	133 lm/W	100%
		3000lm	22W	136 lm/W	75 %
		2000 lm	15 W	133 lm/W	50%
		4100 lm	30 W	137 lm/W	100%
1200 mm	@3500K	3100 lm	22W	141 lm/W	75 %
		2100 lm	15 W	140 lm/W	50%
		4000 lm	30 W	133 lm/W	100%
	@3000K	3000lm	22W	136 lm/W	75 %
		2000 lm	15 W	133 lm/W	50%
		6000 lm	45 W	133 lm/W	100%
	@4000K	4500 lm	34W	132 lm/W	75%
		3000lm	22 W	136 lm/W	50%
		6100 lm	44W	139 lm/W	100%
1500 mm	@3500K	4800 lm	34W	141 lm/W	75%
		3200 lm	22 W	145 lm/W	50%
		60001m	45 W	133 lm/W	100%
	@3000K	4500 lm	34W	132 lm/W	75%
		3000 lm	22 W	136 lm/W	50%

	Fre	а			
Size	сст	Lumen	Wattage	Efficiency	Flex 1 2 3
		4200 lm	29 W	145 lm/W	100%
	4000K	3200 lm	22W	145 lm/W	75%
		2100lm	15W	140lm/W	50%
		4200lm	29W	145lm/W	100%
1200	3500K	3200lm	22W	145lm/W	75%
		2100lm	15W	140lm/W	50%
	3000K	4000lm	29W	138lm/W	100%
		3200lm	22W	145lm/W	75%
		2000 lm	15 W	133 lm/W	50%
		7000lm	47W	149 lm/W	100%
	4000K	5250lm	36W	146 lm/W	75%
		3500lm	24W	146lm/W	50%
		7000lm	46W	152lm/W	100%
1500	3500K	5250lm	35W	149lm/W	75%
		3500lm	23W	149lm/W	50%
		6600lm	47W	140lm/W	100%
	3000K	4950lm	36W	137lm/W	75%
		3300lm	24W	137lm/W	50%

		3300lm	24 W	137lm/W	50%
	0				
		Julie			
Size	сст	Lumen	Wattage	Efficiency	Flex 1 2 3
		2200 lm	18 W	122 lm/W	100%
600 mm	@4000K	1500 lm	12 W	125 lm/W	65%
		1000 lm	8W	125 lm/W	45 %
		4200 lm	34W	124lm/W	100%
1200 mm	@4000K	3200 lm	25 W	128 lm/W	75 %
		2200 lm	18 W	122 lm/W	50%
		63001m	51 W	124 lm/W	100%
		5200 lm	41 W	127 lm/W	80%
1500 mm	O4000K	4200 lm	33 W	127 lm/W	65 %
1500 mm	@4000K	8600 lm	72W	119 lm/W	100%
		6300 lm	50W	126 lm/W	70%
		4200 lm	72 W	119 lm/W	50 %
	Lara				
Size	ССТ	Lumen	Wattage	Efficiency	Flex 1 2 3
		1200 lm	11 5 W	10.4 lm /W	100%

@4000K 1000lm 9.5W 105lm/W 85%

850 lm 7.5 W 113 lm/W

800 lm 7.5 W 107 lm/W 65%

@3000K 1000lm 9.5W 105lm/W

without Bezel @ 3500 K 1050 lm 9.5 W

U					
	) La	ra			
Size	сст	Lumen	Wattage	Efficiency	Flex 1 2 3
		800 lm	11.5 W	70 lm/W	100%
	@4000K	600 lm	9.5 W	63lm/W	85 %
		500 lm	7.5 W	67 lm/W	65%
250 mm		800 lm	11.5 W	70 lm/W	100%
with Bezel	@3500K	650 lm	9.5 W	68lm/W	85%
		550 lm	7.5 W	73 lm/W	65%
		700 lm	11.5 W	61 lm/W	100%
	@3000K	600 lm	9.5 W	63 lm/W	85%
		500 lm	7.5 W	67 lm/W	65%
	@4000K	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%
300 mm		2250 lm	20.5 W	110 lm/W	100%
without Bezel	@3500K	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%
	@3000K	1700 lm	17 W	100 lm/W	85%
		1150 lm	11 W	105 lm/W	65%
		1800 lm	20.5 W	88 lm/W	100%
	@4000K	1500 lm	17 W	88 lm/W	85%
		1000 lm	11 W	91lm/W	65%
300 mm		1850 lm	20.5 W	90 lm/W	100%
with Bezel	@3500K	1550 lm	17 W	91lm/W	85 %
		1050 lm	11 W	95 lm/W	65 %
		1700 lm	20.5 W	83lm/W	100%
	@3000K	1400 lm	17 W	82Im/W	85 %
		950 lm	11 W	86lm/W	65 %

	Len	a			
Size	ССТ	Lumen	Wattage	Efficiency	Flex 1 2 3
	4000K	1450 lm	15 W	97 lm/W	-
1400 mm	3500K	1500 lm	15 W	100 lm/W	-
	3000K	1400 lm	15 W	93 lm/W	-
	4000K	1950 lm	21 W	93 lm/W	-
	3500K	2000 lm	21 W	95 lm/W	-
380 mm	3000K	1900 lm	21 W	90 lm/W	-
36011111	4000 K	2550 lm	30 W	85 lm/W	-
	3500K	2600lm	30 W	87 lm/W	-
	3000K	2500 lm	30 W	83 lm/W	-

# How It Works

### **VARIO** and FLEX

	Leo				
Size	ССТ	Lumen	Wattage	Efficiency	Flex 1 2 3
		10 000 lm	80W	125 lm/W	100%
359 mm	@3000/ @4000K	9000lm	70 W	129 lm/W	75 %
	@ <del>1</del> 000 K	7500 lm	55 W	136 lm/W	60%
		15 000 lm	120 W	125 lm/W	100%
419 mm	@3000/ @4000K	12500 lm	90W	139 lm/W	75%
	@4000K	10 000 lm	70 W	143 lm/W	60%
		25 000 lm	190 W	132 lm/W	100%
469 mm	@3000/ @4000K	20 00 lm	140 W	143 lm/W	75%
	@ 1000K	15 000 lm	105 W	143 lm/W	60%
		40 000 lm	300W	133 lm/W	100%
634 mm	@3000/ @4000K	35 000 lm	250 W	140 lm/W	75 %
	@ <del>1</del> 000K	30000 lm	205 W	146 lm/W	60%

	R	оху			
Size	ССТ	Lumen	Wattage	Efficiency	Flex 1 2 3
		5500 lm	45 W	122 lm/W	100%
1200 mm	O4000K	5225 lm	43 W	121 lm/W	95 %
(Pendant)	@4000K	4950 lm	41 W	121 lm/W	90%
		4675 lm	38W	121 lm/W	85%
		4000 lm	32 W	125 lm/W	100%
1200 mm	O4000K	3800 lm	30 W	125 lm/W	95 %
(Surface)	@4000K	3600 lm	28 W	125 lm/W	90%
		3400 lm	26 W	125 lm/W	85%
		5450 lm	43 W	127 lm/W	100%
1500 mm	O 4000 K	5177 lm	41W	127 lm/W	95%
(Surface)	@4000K	4905 lm	39 W	127 lm/W	90%
		4633 lm	37 W	127 lm/W	85%

Default in red

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

Tom					
Size	ССТ	Lumen	Wattage	Efficiency	Flex 1 2 3
1200	4000 K	1200lm	14W	86 lm/W	-
1200	3000K	1100lm	14W	79 lm/W	-
2000	4000 K	2000 lm	20W	100 lm/W	-
2000	3000K	1800 lm	20 W	90 lm/W	-

Zoe					
Size	ССТ	Lumen	Wattage	Efficiency	Flex 1 2 3
130		700 lm	9W	78 lm/W	-
170	@3000K, 3500K& 4000K	1000 lm	12 W	83 lm/W	-
210		1600 lm	18 W	89 lm/W	-
210		2000 lm	22 W	91 lm/W	-

# Icon Glossary

Icon	Description
VARIO	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
	DALI: Suitable for emergency escape lighting systems acc. to EN 50172
	JUST: adapt on-site to an emergency version using the Just Emergency PLUG&PLAY kit
$\Diamond$	Ingress Protection (IP)
	Impact Protection (IK)
	Color Rendering Index (CRI)
	Unified Glare Rating (UGR)
	Sensor
(d)	Energy efficient
~	Emergency
$\mathbb{H}$	Through wired
	Dimmable
	Loop in - Loop out
$\triangle$	Beam angle
	Cutout dimensions
	Kelvin

Icon	Description	
€ (3)	Corrosion class	
Ê	LiFeP04	
3	3 years warranty	
5	5 years warranty	
SELF- TEST IEC 62034	SelfTest ICE 62034	
	Electrical class I	
	Electrical class II	
	Electrical class III	
<b>(X)</b>	Toolfree installation	





Ideal for: Sanitary rooms and bathrooms

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











ELSA S

ELSA L

Dimensions (mm)

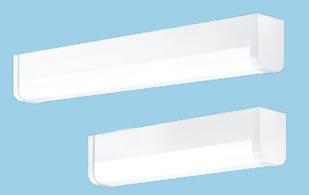
450 59 81

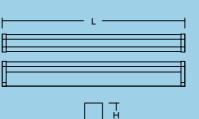
600 59 81



- 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 ≥ 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





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

### Installation / Mounting

**Specification** 

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

### Material / Finish

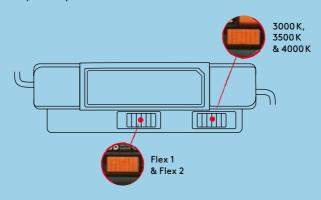
Body	Aluminium, white finish (RAL 9016)
Diffuser	PC, opal
End cap	PC, white finish (RAL 9016)

### 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 MacAdam (Initial)		50 000 hours (@L70, Ta 25°C)	
		4	
CRI		≥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 CRI≥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

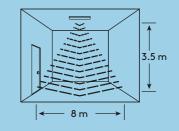
Elsa's microwave sensor option will ensure that light is only delivered when needed. This sensor is a motion switch, which turns on the light on detection of movement, and turns off after a pre-selected hold-time when there are no people around. This leaves the luminaire with a clean finish, as no on/off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

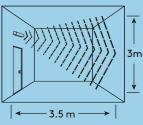
### Controllability (default)

Sensitivity	25 %, <mark>50 %</mark> , 75 %, 100 %
Time	10 s, <mark>1 min</mark> , 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, <mark>disable</mark>

### Sensor range

at 100% sensitivity









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

### 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

Ligite source information	
VARIO (Colour temperature switch)	3000 K, 3500 K & 4000 K
FLEX (Lumen switch) 600mm 1200mm 1500mm	1000 lm(8W), 1500 lm(11W), 2000 lm(16W) 2000 lm(32W), 3000 lm(22W), 4000 lm(30W) 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

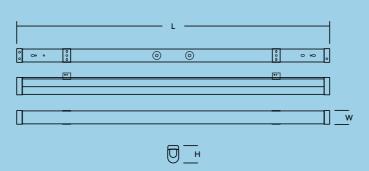
### Ordering guide

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
Accessories	
EMMA VARIO FLEX SUSPENSION KIT	96635576

MWS: microwave presence sensor

and the second s	

	L	W	Н
EMMA S	605	43	53
EMMA M	1204	43	53
EMMA L	1504	43	53
Dimensions	(mm)		



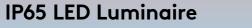


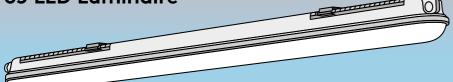






Ideal for: Multi story car parks, workshops, underpasses and storage facilities





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
- BESA compatible
- version using the Just Emergency Linear PLUG&PLAY kit (self test with manual option)

- corridor functionality versions
- JUST-adapt on-site to an emergency

### 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
Lifetime		50 000 hours (@L80, Ta 25°C)
MacAdam (Initial)		4

### Controllability (default)

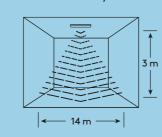
Sensitivity	10 %, 50 %, 75 %, 100 %
Time	5 s, 30 s, 60 s, <mark>5 min</mark> , 10 min, 20 min, 30 min
Lux	2 lux, 10 lux, 50 lux, disable
Stand-by time	0 sec, 10 sec, 1 min, 10 min, 30 min, 60 min, endless
Dimming level	10%, 20%, 30%, 50%

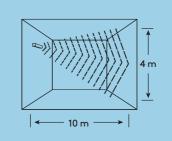
### Presence sensor with corridor function

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





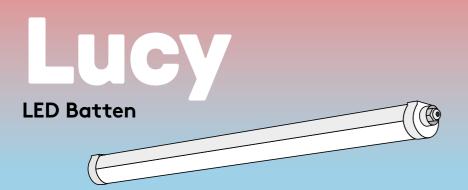
### Ordering guide

Ordering galac	
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 SelfTest LiFePo4*	96700027

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

\* not compatible with 600mm or DALI version

	Slider	L	W	Н
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
Dimension (mm)				









**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

### Specification

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

### Material / Finish

Body	UV stabilised grey 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		

### Light source information

Colour temperature		3000 K & 4000 K				
Lumen 600mm		2000lm(16.5W-4000K)				
	1200mm	4000lm(36W-3000K),(33W-4000K)				
	1500mm	6000lm(54W-3000K),(50W-4000K)				
	1800mm	8000lm(66W-4000K)				
Efficiency		up to 121 lm/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 830 TW	96635093
LUCY 1200 LED IP66 4000 840 TW	96630332
LUCY 1500 LED IP66 6000 830 TW	96635094
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...

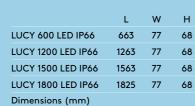


 $\dots$  allows access to the push terminals  $\dots$ 



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



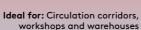














of indoor settings.

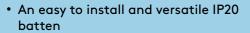








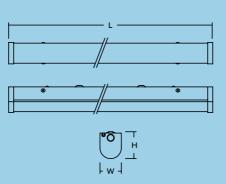




- Direct replacement for conventional battens in terms of light performance and length
- Reliable integrated LED technology, ensuring maintenance-free installation and a long lifetime
- Homogeneous illumination
- Quick opening and installation thanks to press release buttons

- Piano-key terminals, enabling loop-in loop-out
- Suspended LED tray for easy installation
- PIR sensor options available

	L	W	Н
OPPY LED 600	560	62	77
OPPY LED 1200	1160	62	77
OPPY LED 1500	1460	62	77
OPPY LED 1500 PIR	1510	62	83
OPPY LED 1800	1722	62	77
imensions (mm)			



### Specification

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

### Material / Finish

Body	Sheet metal, white finish (RAL 9002)
Diffuser	Polycarbonate, opal
End caps	Polycarbonate, white (RAL 9002)

### Installation / Mounting

Mounting	Suitable for surface mounting and suspended installation
	Rear and side entry possible
	BESA fixing points

### Light source information

Colour temperature		4000 K
Lumen 600mm		2200lm (24W)
	1200mm	2500lm(24W), 5000lm(48W)
	1500mm	4500lm(40W), 6500lm(60W)
	1800mm	6500lm(60W), 8500lm(80W)
Efficiency		up to 106 lm/W
Lifetime		50 000 hours (@L70, Ta 25 °C)
MacAdam (Initial)		5

### Controllability (default)

Sensitivity	min, max
Time	5 s, 30 s, 60 s, 5 min, 10 min, 20 min, 30 min
Working light selection	in any natural light, only works at night

### PIR sensor

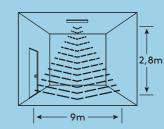
Poppy's infrared sensor option will ensure that light is only delivered when needed. This sensor is a motion switch, which turns on the light on detection of movement, and turns off after a pre-selected hold-time when there are no people around. A daylight sensor is also built-in to prevent the light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

### Ordering guide

_ · · · · · · · · · · · · · · · · · · ·	
Description	SAP Code
POPPY LED 600 2500 840	96631257
POPPY LED 1200 2500 840	96631258
POPPY LED 1200 5000 840	96631259
POPPY LED 1500 4500 840	96631260
POPPY LED 1500 4500 840 PIR	96633168
POPPY LED 1500 6500 840	96631261
POPPY LED 1500 6500 840 PIR	96633169
POPPY LED 1800 6500 840	96631262
POPPY LED 1800 8500 840	96631263
POPPY LED 1200 2500 840 E3	96631268
POPPY LED 1200 5000 840 E3	96631269
POPPY LED 1500 4500 840 E3	96631270
POPPY LED 1500 4500 840 PIR E3	96633170
POPPY LED 1500 6500 840 E3	96631271
POPPY LED 1500 6500 840 PIR E3	96633171
POPPY LED 1800 6500 840 E3	96631272
POPPY LED 1800 8500 840 E3	96631273
Accessories	
POPPY LED Suspension Kit	96631274

### Sensor range

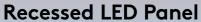
at 100% sensitivity

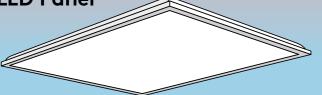


23









Providing high quality light with low glare and high efficiency.









ANNA Q596

ANNA Q622

ANNA 1200×300

Dimensions (mm)





- 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 125 lm/W
- Gentle, soft and glare free lighting with UGR <19

- Direct replacement for 4×14W T5 or 4×18W 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 mm² wires) enabling loop-in loopout 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

H1 H2

35 60

596

622 622 35 60

1196 296 35 60

S	p	e	С	i	fi	c	a	t	i	0	r	ì			
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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 × 3 versions
Installation	Lay-in installation in T-bar ceiling grids – suitable for surface and plaster board installation (accessories available separately)

### Material / Finish

Frame	Aluminium
Diffuser	TpB rated, PET, opal
Light guide panel	PS
Backplate	Steel sheet

### Light source information

VARIO (Colour temperature switch)	3000K, 3500K, 4000K
FLEX (Lumen switch)	3000lm (24W), 3750lm (30W), 4000lm (33W), 4400lm (36W)
Efficiency	up to 125 lm/W
Lifetime	50 000 hours (@L80, Ta 25°C)
MacAdam (Initial)	4

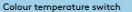
### Controllability (DALI-2)

	-	
Dimming level		1-100 %

### **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:







Lumen output switch

### Ordering guide

Description	SAP Code
ANNA VARIOFLEX 2 Q596 4400 830/35/40	96700001
ANNA VARIOFLEX 2 Q622 4400 830/35/40	96700002
ANNA VARIOFLEX 2 12X3 4400 830/35/40	96700003
DALI	
ANNA VARIOFLEX 2 Q596 4400 830/35/40 DALI	96700004
ANNA VARIOFLEX 2 Q622 4400 830/35/40 DALI	96700005
ANNA VARIOFLEX 2 12X3 4400 830/35/40 DALI	96700006
Accessories	
TECO ANNA V RECESSED SPRINGS	96700007
TECO ANNA V CONNECTOR DRIVER	59013250
TECO SURFACE MOUNT BOX Q596	96635585
TECO SURFACE MOUNT BOX Q622	96635586
TECO SURFACE MOUNT BOX 12X3	96635572
JUST E3 PLUG&PLAY KIT SELF TEST LiFePO4	96634428
JUST E3 PLUG&PLAY KIT MANUAL TEST LiFePO4	96635766

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





Ideal for: Schools/universities and office/meeting rooms



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









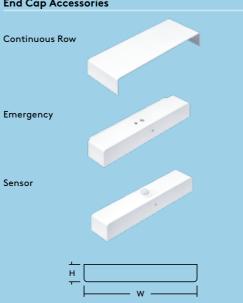




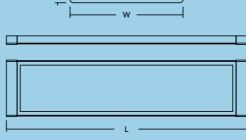
- FLEX Feature (Lumen Output Switch): The flexibility to decide on your lumen package on site with the flick of a switch
- With UGR <19 Roxy provides comfortable glare-free lighting ideal for learning and desk based environments
- Available in direct, direct/indirect and asymmetric, Roxy has the right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



ROXY 1200 1200 306 ROXY 1500 1500 306 Dimensions (mm)



### 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

### Material / Finish

Material / Tillian	
Direct	
Body	Extruded aluminium
Diffuser	PS, UGR Sheet: PET
Direct/Indirect	
Body	Extruded Aluminium
Diffusor	PS, UGR Sheet: PET
Lens	PC
Asymmetric	
Body	Sheet steel
Lens	PC

### Light source information

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

### Controllability (default)

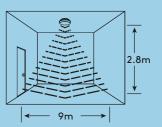
Sensitivity	50%, 100%
Time	5sec (test mode), 5 min, 15 min, 30 min
Lux	100 lux, 200 lux, 300 lux, 400 lux, 500 lux, OFF

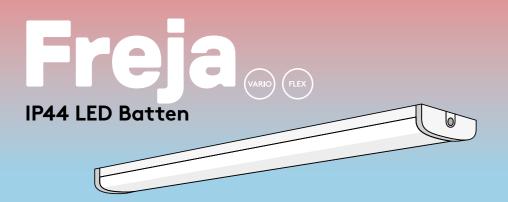
### Ordering guide

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
DALI	
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
Accessories	
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







**Ideal for:** Circulation areas, garages and storage rooms

ldeal 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

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20	)ec	ш	ica	TIC	วท

Electrical class

### Installation / Mounting

Mounting Suitable for surface mounting

### Material / Finish

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

### Light source information

Light source information	
VARIO (Colour temperature switch)	3000 K, 3500 K, 4000 K
FLEX (Lumen switch) 1200mm 1500mm	2100 lm(15W), 3200 lm(22W), 4200 lm(29W) 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



	L	W	Н
FREJA 1200	1255	170	66
FREJA 1500	1555	170	66
Dimensions (mm)			



# Boris

**LED High Bay** 







Ideal for: Manufacturing, storage facilities,

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



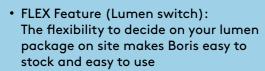






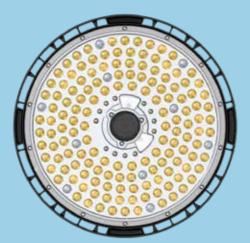




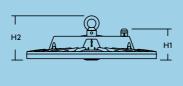


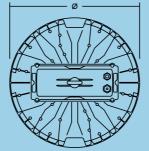
- High output low glare, at <25 UGR
  Boris has the right balance of power
  and comfort</li>
- Excellent efficiency up to 162 lm/W make Boris a great replacement for conventional lighting with energy savings of greater than 50 % versus traditional solutions

- 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)			

# Material / Fire Body Lens Stirrup Light source Colour temperor FLEX (Lumen so

Specification	
Electrical class	T
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).

Material / Finish	
Body	Die cast aluminium
Lens	Polycarbonate
Stirrup	Powdercoated sheet steel

Stirrup for wall/ceiling mounting (available as accessory).

Light source information		
Colour temperature		4000 K
FLEX (Lumen switch)	S	12500lm(78W),16000lm(100W)
		20 000 lm (130W)
	L	21000 lm(130W), 25 000 lm(160W) 30 000 lm(195W)
Efficiency		up to 162 lm/W
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	96634425
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 LiFeP04 battery technology (including 3 year battery warranty).

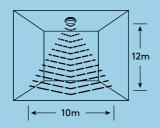
### Presence & Daylight sensor

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







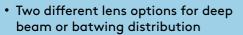
Ideal for: Warehouses, distribution centres, storages, production plants

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









- 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: 9000 lm model delivers 170 lm/W, and the 12 000 lm model delivers 160 lm/W

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Electrical class

### Installation / Mounting

Mounting Suitable for surface mounting or catenary suspension

### Material / Finish

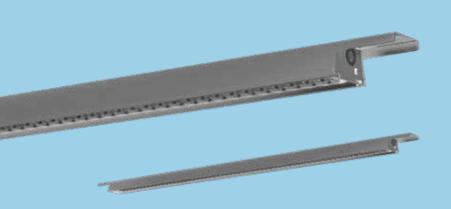
Body Galvanized sheet steel

### Light source information

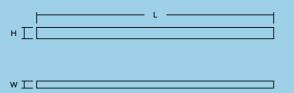
Colour temperature	4000 K
Lumen	12 000 lm (75 W), 9000 lm (52 W)
Efficiency	up to 170 lm/W
Lifetime	100 000 hours (@L70, Ta 25°C)
MacAdam (Initial)	3

### Ordering guide

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



	L	W	Н
BALDER 9000	1745	52	84
BALDER 12000	1745	52	84
Dimensions (m	m۱		











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

a vast range of applications.













- VARIO Feature (Colour Temperature Switch): The ability to choose your colour temperature on site with the flick of a switch
- The fully detachable connector allows for first fix wiring and high voltage circuit testing whilst the luminaire is detached from the connector
- Save time with easy, tool-free installation

- Replacement for traditional 1×18W, 1×26W, 2×18W or 2×26W compact
- Suitable for use with phase-cut dimmer switches
- JUST: adapt on-site to an emergency version using the Just Emergency PLUG&PLAY kit

		fi				

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

### Installation / Mounting

Mounting	Amy can be installed into a wide range of ceiling types of 2–20 mm thickness. Connector for tool-free wiring, also enabling loop-in loopout

### Material / Finish

Body	Steel, white finish (RAL 9003)
Diffuser	Polycarbonate

### Light source information

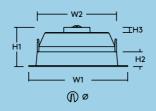
3	
VARIO (Colour temperature switch)	3000 K, 3500 K and 4000 K
Lumen	700 lm (7W), 1000 lm (10W), 1500 lm (15W), 2000 lm (20W)
Efficiency	up to 100 lm/W
Lifetime	50 000 hours (@L80, Ta 25°C)
MacAdam (Initial)	4

### Ordering guide

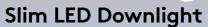
Description	SAP Code
AMY VARIO 100 LED DL 700 830/35/40	96632753
AMY VARIO 150 LED DL 1000 830/35/40	96632754
AMY VARIO 150 LED DL 1500 830/35/40	96632755
AMY VARIO 200 LED DL 2000 830/35/40	96632756
Accessories	
THORNeco Connector	96631101
Just E3 PLUG&PLAY Kit SelfTest LiFePO4	96634428
Just E3 PLUG&PLAY Kit ManualTest LiFePO4	96635766

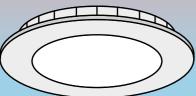


	Ø	W1	W2	H1	H2	Н3
AMY LED 100	100	120	95	55	18	9
AMY LED 150	150	170	140	69	25	9
AMY LED 200	200-240	250	190	79	30	9
Dimensions (mm)						



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





Slim and adaptable, Zoe is ideal for your everyday needs.

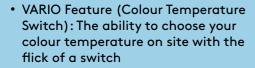












- With a slimline profile of 26mm Zoe fits most ceiling types
- Save time with easy, quick and toolfree installation
- version using the Just Emergency



•	Curved low profile driver makes
	installing Zoe easy, even in the tightest
	of ceiling spaces

PLUG&PLAY kit

# • JUST: adapt on-site to an emergency

### Specification

Electrical class	II
Ambient operating temperature	-10 to +40 °C (E3: 0 to +25 °C)
IP	IP44 (from below), IP20 (from above)
Driver	ENEC certified

### 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 210
	206 210

### Material / Finish

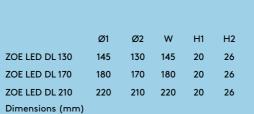
Body	Aluminium, white finish
Diffuser	PS

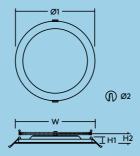
### Light source information

VARIO (Colour temperature switch)	3000 K, 3500 K & 4000 K
Lumen	700lm (9W), 1000lm (12W), 1600lm (18W) and 2000lm (22W)
Efficiency	up to 90 lm/W
Lifetime	50 000 hours (@L80, Ta 25°C)
MacAdam (Initial)	4

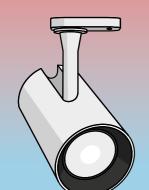
### Ordering guide

Description	SAP Code
ZOE VARIO LED DL 130 700 830/35/40	96632685
ZOE VARIO LED DL 170 1000 830/35/40	96632686
ZOE VARIO LED DL 210 1600 830/35/40	96632687
ZOE VARIO LED DL 210 2000 830/35/40	96632688
DALI	
ZOE VARIO LED DL 210 2000 830/35/40 HFIX	96635241
Accessories	
Just E3 PLUG&PLAY Kit SelfTest LiFePO4	96634428
Just E3 PLUG&PLAY Kit ManualTest LiFePO4	96635766
ZOE VARIO 210 SURFACE MOUNT BOX	96635258





# 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.







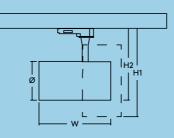


- CRI 90 for best colour rendition to focus the attention on the product or art
- Available in 3 sizes: Small (54mm),
   Medium (69mm) and Large (79mm)
- Versatile each product has two interchangeable lenses offering different beam angles

- 90° tile and 350° rotation make Luca adjustable to your display needs
- Universal adapter suitable for most 3-phase tracks

atili	LUCA S	
	LUCA M	(

	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	1
Ambient operating temperature	-20°C to +35°C

Instal	lation .	/ Mour	nting
--------	----------	--------	-------

	~
Mounting	Compatible with: GLOBAL, EUTRAC, POWERGEAR, ZUMTOBEL, NORLUX, NUCO, NORDIC

### Material / Finish

Body	Aluminium die-cast, white (RAL9016),
	black (RAL9005)

### Light source information

Light source inform	ation	
Colour temperature switch		3000 K & 4000 K
Lumen S:	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 94lm/W
Lifetime		50 000 hours (@L70, Ta 25°C)
CRI		>90

### Orderina auide

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





Ideal for: Residential, reception. hotels and restaurants

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



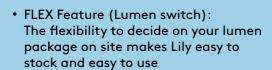












- IP44 downlight with 38° or 60° beam angle
- Optional accessory to boost to IP65 from below
- Suitable for covering directly with insulation materials
- Direct replacement for 35W and 50W halogen downlights
- Product height of only 59 mm: fits various ceiling types

- dimmer switches
- Save time with easy, tool-free
- accessories make Lily super versatile and easy to convert to pendant or
- version using the Just Emergency PLUG&PLAY kit

•	Suitable	for	use	with	phase-cut	t

- installation
- Press fit terminal enables convenient loop in and loop out
- A full assortment of bezel and can surface mount
- JUST: adapt on-site to an emergency



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

coated

### Ordering guide

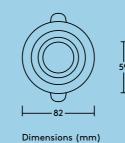
Complete product – light engine plus round white adjustable trim included	SAP Code
LILY LED SPOT IP44 38° 68 850 930 ADJ WH*	96632290
LILY LED SPOT IP44 38° 68 850 940 ADJ WH*	96632291
Accessories - Light engines	
LILY LED SPOT IP44 24° 68 850 930 **	96633278
LILY LED SPOT IP44 24° 68 850 940 **	96633279
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

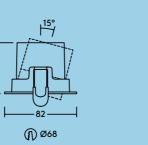
Accessories – Trims & Cans	white	black	silver
Bezel trim round adjustable	96632298	96632302	96632303
Bezel trim square adjustable	96632300	96632304	96632305
Bezel trim IP65	96632301		
Pendant can	96633292	96633293	

<sup>\*</sup>Complete product including trim, phase cut dimmable driver and loop in loop out connectors.

WH: white; BLK: black; SIL: silver









**Specification** 

Electrical class

Mounting

Body

Lens

Bezel trim

Material / Finish

Light source information

Installation / Mounting

Ambient operating temperature -20 to +40 °C

IP44 (from below), IP20 (from above); with optional IP65 trim: IP65 (from below), IP20 (from above)

Lily downlight can be installed into

a wide range of ceiling types.

Aluminium heat sink, powder

Aluminium, powder coated

Mineral wool insulation can be

placed directly over the top of the















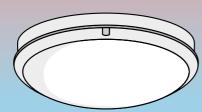


<sup>\*\*</sup>Light Engine including phase cut dimmable driver and loop in loop out connectors. Choose either a bezel trim or a pendant can to complete the product of your choice.

# 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.



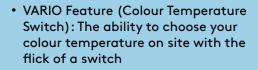












- FLEX Feature (Lumen Output Switch): The flexibility to decide on your lumen package on site with the flick of a switch
- Opal diffuser for homogeneous light effect and visual comfort
- Sealed to IP65 for protected exterior applications

•	Robust construction	up	to	IK10	impact
	resistance				

- White Body with optional trim or eyelid (both in black or white)
- Optional with 3h emergency kit and sensor option (self test with manual
- Compatible with BESA Box

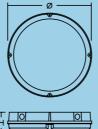
Ø

LARA LED 250 250 LARA LED 300 300 75 Dimensions (mm)

• Easy to program sensor version via dip switches directly on the sensor. To suit a variety of indoor and outdoor applications







### 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)		3000 K, 3500 K & 4000 K		
FLEX (Lumen switch)	250mm	800 lm(7.5W), 1000 lm(9.5W), 1200 lm(11.5W)		
	300mm	1200 lm(11W), 1800 lm(17W), 2200 lm(20.5W)		
Efficiency		up to 115 lm/W		
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

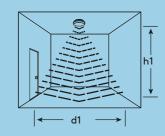
### Ordering guide

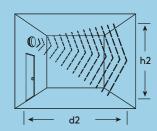
Description		SAP Code			
LARA VARIOFLEX 250 1200 830/35/40		96635284			
LARA VARIOFLEX 250 1200 830/35/40 MWS		96635285			
LARA VARIOFLEX 250 1200 BEZEL TRIM WH		96635288			
LARA VARIOFLEX 250 1200 MWS BEZELTRIM WH	1	96635289			
LARA VARIOFLEX 300 2200 830/35/40		96635286			
LARA VARIOFLEX 300 2200 830/35/40 MWS		96635287			
LARA VARIOFLEX 300 2200 BEZEL TRIM WH	LARA VARIOFLEX 300 2200 BEZEL TRIM WH				
LARA VARIOFLEX 300 2200 MWS BEZELTRIM WH	4	96635291			
Accessories	WH	BLK			
LARA VARIOFLEX 250 BEZEL TRIM	96635293	96635294			
LARA VARIOFLEX 300 BEZEL TRIM	96635297	96635298			
LARA VARIOFLEX 250 EYELID TRIM	96635295	96635296			
LARA VARIOFLEX 300 EYELID TRIM	96635299	96635300			
LARA E3 KIT SELFTEST LIFEPO4	96635292				

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

### Sensor range

at 100% sensitivity



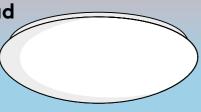


	h1	d1	h2	d2	
00%	3 m	10 m	2 m	6 m	
50 %	3 m	6 m	2 m	3 m	



Ideal for: Stairwells, breakout area and circulation corridors

Circular IP44 LED Bulkhead



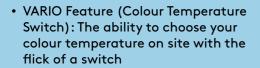
Slimline, indoor bulkhead ideal for corridors and stairwells.











- Available in 1400, 1900 and 2500 lm light output
- Direct replacement for 2×18W, 2×26W and 2×36W 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

LENA LED 320 350 320

- W - -

### 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 thank
	to the twist-and-lock opening
	mechanism and the piano key
	terminal for wires up to 2.5 mm <sup>2</sup>

### Material / Finish

Backplate	steel, white finish
Diffuser	PMMA, opal

### Light source information

VARIO (Colour temp switch)	perature	3000K, 3500K, 4000K
Lumen	320mm 380mm	1400lm(15W) 1900lm(21W), 2500lm(30W)
Efficiency		up to 100 lm/W
Lifetime		50 000 hours (@L70, Ta 25°C)
MacAdam (Initial)		5

### Controllability (default)

Sensitivity	10 %, 50 %, 75 %, 100 %
Time	5 s, 90 s, <mark>5 min</mark> , 15 min
lux	10 lux, 20 lux, 50 lux, disable

### Ordering guide

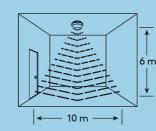
Description	SAP Code
LENA VARIO LED 320 1400 830/35/40	96631862
LENA VARIO LED 320 1400 830/35/40 MWS	96631863
LENA VARIO LED 380 1900 830/35/40	96631864
LENA VARIO LED 380 1900 830/35/40 MWS	96631865
LENA VARIO LED 380 2500 830/35/40	96631866
LENA VARIO LED 380 2500 830/35/40 MWS	96631867

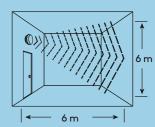
### Presence sensor

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





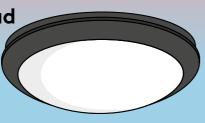
LENA LED 380 410 380 115

Dimensions (mm)

# Tom (VARIO)

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

Circular IP66 LED Bulkhead



Tom is strong, bright and smart.
Suitable for both indoor and outdoor areas.









- VARIO Feature (Colour Temperature Switch): The ability to choose your colour temperature on site with the flick of a switch
- Frosted diffuser ensures a homogeneous light effect and visual comfort
- Direct replacement for 2×26W or 2×18W CFL
- Available in 2 different lumen packages, 1200 lm and 2000 lm
- Maximise energy savings using microwave sensor version





### Specification

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

### Installation / Mounting

Mounting	Suitable for wall or ceiling mounting
	Quick and easy installation thanks
	to a piano key terminal for wires u
	to 2.5 mm²

### Material / Finish

Body	UV stabilised polycarbonate:
	White (RAL 9010), Black (RAL 9005)
Diffuser	UV stabilised opal polycarbonate

### Light source information

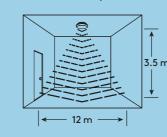
VARIO (Colour temperature switch)	3000 K and 4000 K
Lumen	1200lm (14W), 2000lm (20W)
Efficiency	up to 100 lm/W
Lifetime	50 000 hours (@L70, Ta 25°C)
MacAdam (Initial)	6

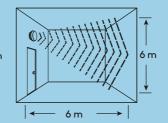
### Controllability (default)

Sensitivity	20 %, 50 %, 75 %, 100 %
Time	10 s, 1 min, <mark>5 min,</mark> 10 min, 15 min, 20 min, 25 min, 30 min
lux	10 lux, 20 lux, 50 lux, 100 lux, 200 lux, 300 lux, 500 lux, disable

### Sensor range

at 100% sensitivity





### Ordering guide

Description	WH	BLK
TOM VARIO LED 300 2000 830/40	96631714	96668716
TOM VARIO LED 300 2000 830/40 MWS	96631715	96668717
TOM VARIO LED 300 1200 830/40	96632237	96668718
TOM VARIO LED 300 1200 830/40 MWS	96632238	96668719

MWS: microwave sensor WH: white, BLK: black

 $^{44}$ 

# Leonie

**LED Floodlight** 







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

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

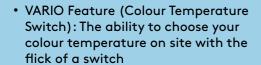












- FLEX Feature (Lumen Output Switch): The flexibility to decide on your lumen package on site with the flick of a
- Compatible with THORNeco cable system

- 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

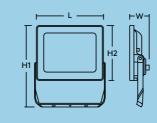




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	L	W	H1	H2
IP65 16W	164	48	199	134
IP65 40W	177	56	214	148
ions (mm)				

LEONIE LEONIE



### **Specification**

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

### Controllability (default)

Sensitivity	10 %, 50 %, 75 %, <mark>100 %</mark>
Time	5s, 90s, <mark>5min</mark> , 15min
lux	2 lux. 10 lux. 50 lux. 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.



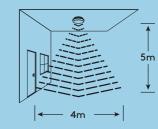
### Ordering guide

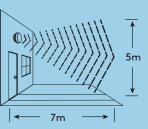
Description	SAP Code
LEONIE VARIOFLEX IP65 16W 830/35/40	96635663
LEONIE VARIOFLEX IP65 40W 830/35/40	96635647
Accessories	
LEONIE VARIOFLEX PLUG&PLAY MWS	96635648
LEONIE VARIOFLEX WALL BRACKET	96635746
LEONIE VARIOFLEX SPIKE	96635649
Compatible THORNeco cable system	
MAINS ADAPTOR	96633588
EXTERNAL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

MWS: microwave presence sensor

### **MWS Sensor range**

at 100% sensitivity









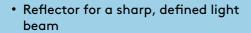
Ideal for: Building facades and gardens

Highlight your surroundings with Mary, our flexible garden floodlight.





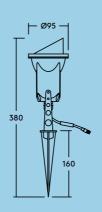




- Supplied with a heavy duty rubber connection cable with integrated waterstop
- Compatible with THORNeco cable system

- 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 mm²)
	H07RN-F connection cable
	Salt resistant according to

corrosion class C4

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	3000 K	
Lumen	500 lm (8W)	
Efficiency	up to 621m/W	
Lifetime	50 000 hours (@L80, Ta 25 °C)	
CRI	80	

Ord	ering	guide

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

### Compatible THORNeco cable system



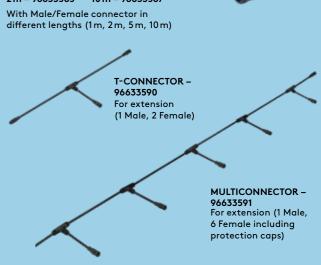
Connects luminaires of the THORNeco cable system to mains (one side: Conny connector, other side: Female) Connects luminaires of other suppliers to the THORNeco cable system (one side: Male, other side: Conny connector)

Conny IP68 Connector

- 96632722



EXTENSION CABLE 1 m - 96633584 5 m - 96633586 2 m - 96633585 10 m - 96633587







Ideal for: Footpaths and gardens

making the perfect guide.





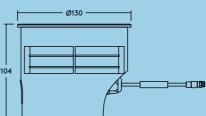


- Strongly diffused uniform light surface to reduce perceived glare
- High corrosion resistance (C4) and water ingress protection
- Supplied with a heavy duty rubber connection cable with integrated waterstop
- Compatible with THORNeco cable system

- Natural colour temperature provides comfort for pathway users
- Low overall height decreases required
- Suitable for installation in concrete/ soil/wood
- Compatible with all the PLUG&PLAY outdoor sensor accessories (sensor,

•	Adaptor wit	h open	leads inc	luded

- space and depth for installation
- daylight, photocell)



### **Specification**

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

### Installation / Mounting

unting	Suitable for installation in concrete/soil/wood
	Pre-wired with mains cable and adapter with open leads (1.5 mm²)
	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 300	00 K
Lumen 350	0lm (6W)
Efficiency up	to 58lm/W
Lifetime 50	000 hours (@L80, Ta 25°C)

### Ordering guide

D	escription	SAP Code
R	OSY INGROUND IP67 350 830	96633582
Α	ccessories	
E	CO PIR SENSOR	96633592
E	CO PC SENSOR	96634061

### Compatible THORNeco cable system



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

- 96633589 Connects luminaires of other suppliers to the THORNeco cable system (one side: Male, other side: Conny

Conny IP68 Connector

connector)

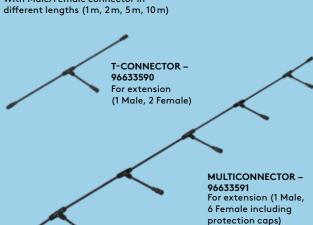
- 96632722

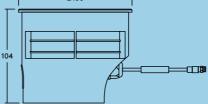
**EXTERNAL INTEGRATOR** 



1m - 96633584 5 m - 96633586

2m - 96633585 10m - 96633587 With Male/Female connector in











Ideal for: Building facades and residential

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





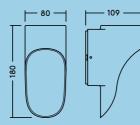
- Elegant and timeless design
- 3 different designs (round, square, can)
- Up/downlight versions available to create wallwash effect
- Zero uplight versions available to reduce light pollution

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

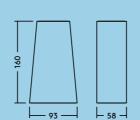




### Can version



### Round and square version



### Specification

Electrical class	L
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 – 500 lm(8W)
ifetime	50 000 hours (@L80, Ta 25 °C)

### Light output

\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Round	Square	Can
71,	M.	_	*

\*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











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

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



THORN

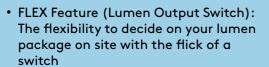
10000m | 35000m | 40000m | IP66 | IK08 | 10kV











- 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

- 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	Н
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)			

_ †	L	1 <sup>w</sup> t
H [	0	
{		

### **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

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

<b>9</b>	
Colour temperature	3000 K & 4000 K
FLEX (Lumen switch) @ 4000 K	80 W: 7500 lm; 9000 lm; 10000 lm 120 W: 10000 lm; 12500 lm; 15000 lm 190 W: 15000 lm; 20000 lm; 25000 lm 300 W: 30000 lm; 35000 lm; 40000 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.

### Ordering guide

or norming garage	
Description	SAP Code
5000 K	
EO FLEX IP66 80W 830 PC	96635301
EO FLEX IP66 120W 830 PC	96635302
EO FLEX IP66 190W 830 PC	96635303
EO FLEX IP66 300W 830 PC	96635304
1000 K	
EO FLEX IP66 80W 840 PC	96635305
EO FLEX IP66 120W 840 PC	96635306
EO FLEX IP66 190W 840 PC	96635307
EO FLEX IP66 300W 840 PC	96635308



### SelfTest Emergency Downlight





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.

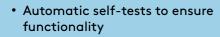












- Based on the latest technology with lithium iron phosphate battery (LiFePO4) for 3h emergency operation
- Two light distributions available: AntiPanic and Escape
- Optimised for large spacing
- Optional box for surface mounting



# Surface Mount Box: ① Ø67-130

### 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 0.5 lx

Light distribution ESCAPE For escape route lighting with min 1lx

### Planning recommendation

	Antipanic – 0.51x		
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	
	Escape – 11x		
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

# SelfTest Exit Sign











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







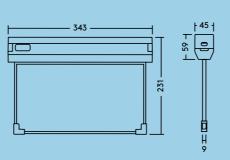




- Automatic self-tests to ensure functionality (includes option to change to manual test)
- Based on the latest technology with lithium iron phosphate battery (LiFePO4) for 3h emergency operation
- With four pictograms included one product gives you the versatility to

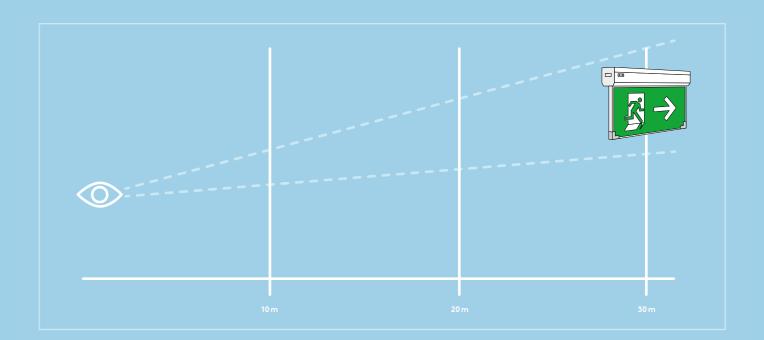
- choose the direction you need (ability to be double-sided)
- Operation mode: maintained or non maintained
- Mounting on Ceiling or Wall, 90°
- Viewing range 30 m





### Ordering guide

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



### SelfTest Emergency **Bulkhead**



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

through the dark.







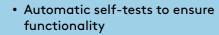












- Based on the latest technology with lithium iron phosphate battery (LiFePO4) for 3h emergency operation
- With four pictograms included one product gives you the versatility to choose the direction you need
- Operation mode: maintained or nonmaintained
- Mounting on Ceiling or Wall
- Viewing range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

### Planning recommendation

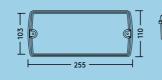
	0.9	5 lx
2.0 m	3.5	8.8
2.5 m	3.8	9.6
3.0 m	4.0	10.3
3.5 m	4.1	10.8
4.0 m	4.2	11.2
4.5 m	4.3	11.6
	1lx	
2.0 m	2.8	7.1
2.5 m	2.9	7.6
3.0 m	3.0	8.0
3.5 m	3.0	8.3
4.0 m	2.9	8.5
4.5 m	2.7	8.6

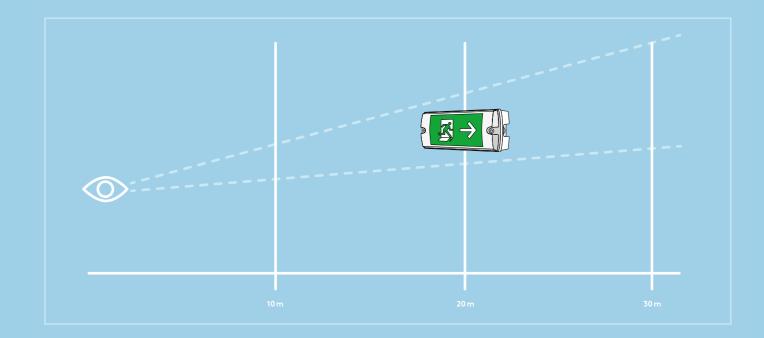
### Ordering guide

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









# Just Emergency RILUG&PLAY E3 Kit

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

- The kit has been designed to enable conversion of general lighting for emergency operation
- 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
- Based on the latest technology with lithium-iron phosphate battery, the Kit provides a longer life expectancy compared to NiCd or NiMH emergency kits
- Quick and easy to install PLUG&PLAY solution with Self Test or Manual Test, which eliminates complexity from emergency lighting
- Battery compartment can be easily opened for a fast and convenient battery replacement
- THORNeco Connector (4 pole) for tool-free connection of switched and unswitched line



### Compatible with

Anna, Julie, Amy, Zoe and Lily

### The battery

The emergency kit uses a lithium iron phosphate (LiFePO4) battery which is known for its many advantages such as longer life expectancy, high safety and lower environmental impact due to the use of phosphates instead of cobalt.

### Ordering guide

Description	SAP Code
Just E3 PLUG&PLAY Kit SelfTest LiFePO4	96634428
Just E3 PLUG&PLAY Kit ManualTest LiFePO4	96635766
Just E3 LINEAR P&P KIT SelfTest LiFePo4	96700027
SPARE BATTERY for Just E3 KIT LiFePO4	59011337

### 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

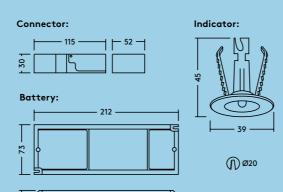
As soon as the emergency kit is connected, the Initial test will start automatically. In case of a failure the LED will flash red, otherwise the charge mode will start

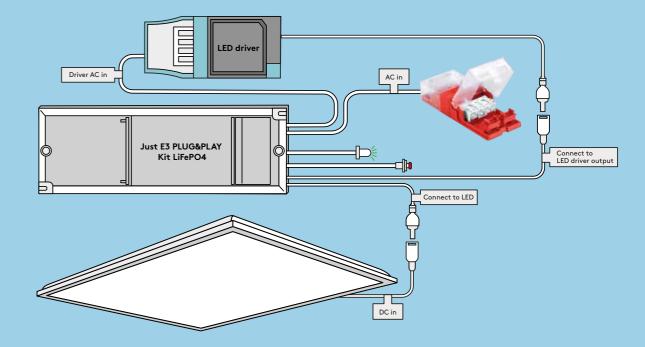
### Functional test

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.





### General product information

Input rated voltage	220-240 V AC, 50-60 Hz
AC Input power rated	4.0 W max
Power factor	>0.5
Output emergency power	3W
Output voltage DC	10-50 V
Battery capacity (LiFePO4)	2200 mAh
Ambient range	ta 0-50°C

### 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.

### Explanation of LED Indicator for SELF TEST

•	Green	Stable	Charging mode Fully charged
	Green	Fast flash (0.1 sec on, 0.1 sec off)	Functional test
**	Green	Slow flash (1sec. on, 1sec. off)	Duration test
•	Red	Stable	Failure (Load)
**	Red	Slow flash (1sec. on, 1sec. off)	Battery failure
0	Off		Emergency mode (battery operation/DC

### **Explanation of LED Indicator for MANUAL TEST**

•	Green	Stable	Charging mode Fully charged
0	Off		Emergency mode (battery operation/DC)

# Accessories

### For outdoor applications

### **PIR Sensor**

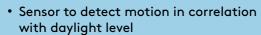












- Including remote control to adapt sensor settings
- Earth spike included, suitable for wallmounting
- Reliable on/off function thanks to infrared technology
- Ambient temperature: -20 to +40 °C
- Switching load: 800W
- Connection via THORNeco cable system or adaptor with open leads (included)
- Compatible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

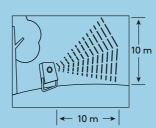
Ordering guide
----------------

Description	SAP Cod
ECO PIR SENSOR	9663359

### 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

### Detection range



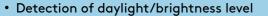
### **Photocell**







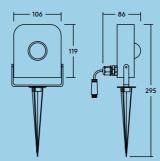




- Switch to determine on which brightness level lights should turn on
- Earth spike included, suitable for wall-mounting
- Ambient temperature: -20 to +40 °C
- Switching load: 200W
- Connection via THORNeco cable system or adaptor with open leads (included)
- Compatible with THORNeco cable system

Ordering guide	
Description	SAP Code
FCO PC SENSOR	1401/2440

### PIR Sensor/ Photocell:



### **Conny IP68 Connector**





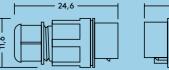


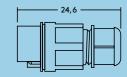
Ordering guide

Description SAP Code

CONNY IP68 QUICK CONNECTOR 16A 3-POL 96632722

- 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>





# Accessories

### For outdoor applications

### **Cables & Connectors**





- 3 pole
- High mechanical strength
- Flexible cable H07RN-F 3G 1.5 mm²
- 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

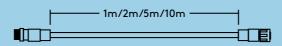






### **Extension cable**

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



### Mains adaptor

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



### **External integrator**

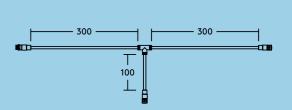
Connects luminaires of of other suppliers to the THORNeco cable system (one side: Male, other side: Conny connector)





### T-Connector

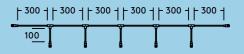
for extension (1 Male, 2 Female)





### Multiconnector

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





### Contact.



