opto drive

OPTIMIZED LED-ENGINE SOLUTIONS



OPTOGA

WWW.OPTOGA.COM

We develop the light for your ideas

The customer in mind

At Optoga, we design and develop all our OptoDrive® LED-light engines with you as the customer in mind. All research, development and testing is done in Sweden. This is to maintain control over the full process and to keep it simple.

The ideal performance

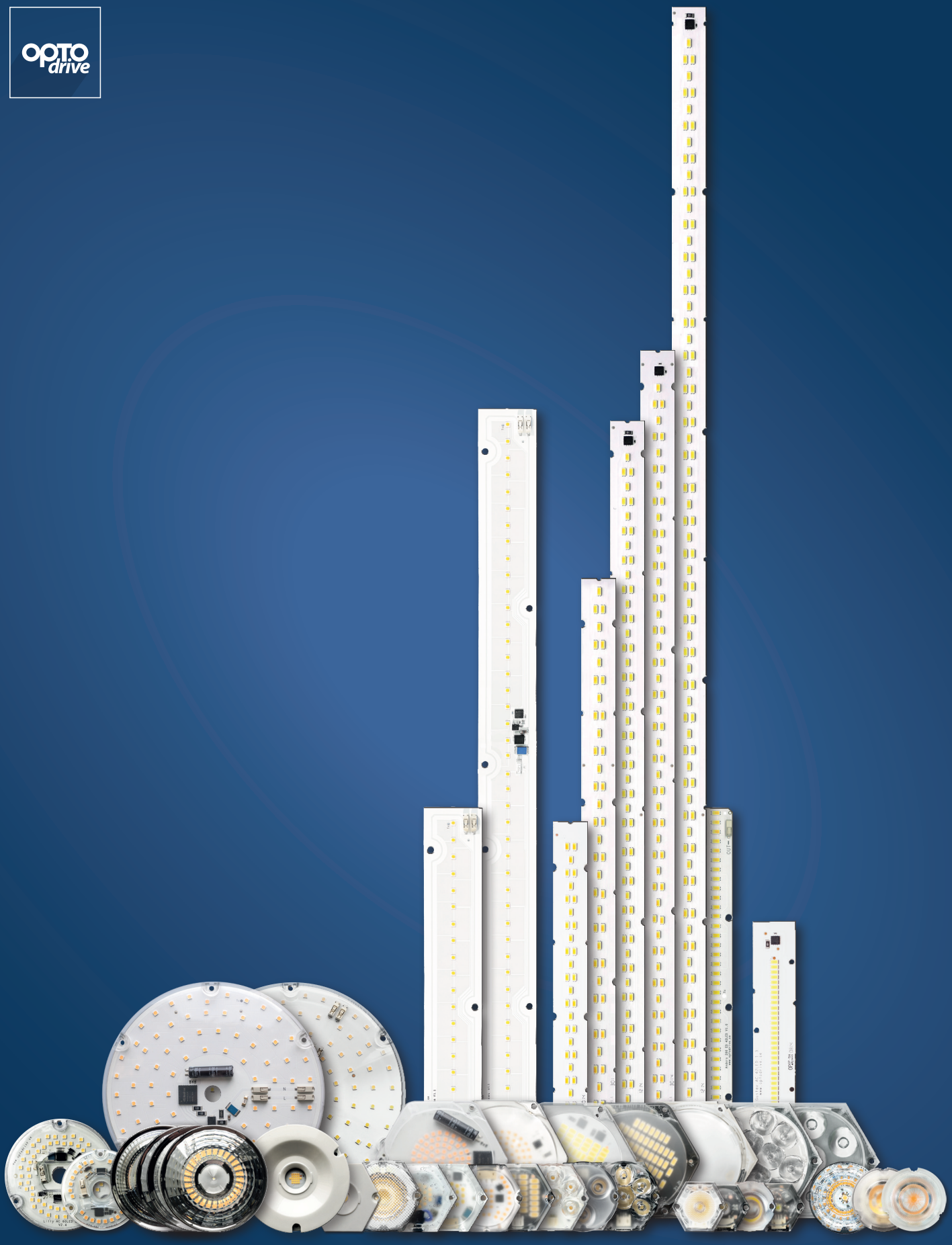
If you have the ideas and the design, we will provide you with the best possible light. We are always aiming for a product that is easy for you to integrate and has the ideal performance for your luminaire.

Quicker and simpler

We provide optimized LED-light solutions, integrated light engines that enable you as a luminaire manufacturer to focus on satisfying your end-customers with a perfect light. Quicker and simpler.

Stefan Larsson,
Founder and CEO

opto drive



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FELICIA

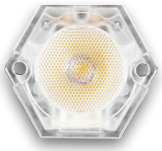
OptoDrive® FELICIA is the world's smallest AC LED-light engine. Perfect and safe for decorative lighting.

- Small footprint, only 33mm
- Available in RGB and red
- Easy and safe mounting with connectors

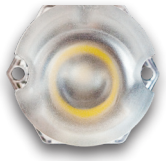




FELICIA AC



FELICIA ED

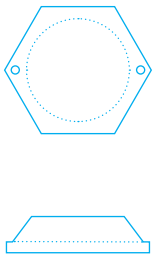
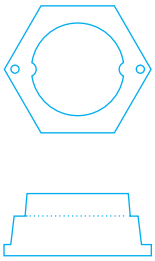
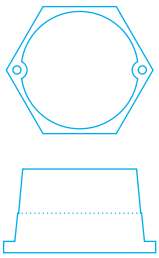


FELICIA ID

Power (Watt)	2W	4W	3.3W (700mA)	1W	3W
Light output (Lumen)	150lm	230lm	220lm (700mA)	90lm	170lm
LED (Quantity)	1		1	1	
Power supply (Volt)	230VAC (No driver required)		- (External driver)	12-36VDC (Internal driver)	
CRI (Ra)	Ra>80		Ra>90	Ra>90	
CCT (Kelvin)	2 700K 3 000K*		2 700K 3 000K* 4 000K	3 000K* 5 300K	
Spread angle (Degrees)	25° Cover 130° Asymmetric 60x25°		30° Cover 130°	30° Cover 130°	
Dimmable	Yes		Yes	Yes	
Surge protection	Not required		-	-	
Lifetime	>35 000h**		>35 000h**	>35 000h**	
Ideal applications	Decorative Outdoor		Decorative Tasklight Outdoor	Decorative Tasklight Outdoor	
Features				Works with: Dimlight Switch Dimlight Flexswitch DimLight Dali Dimlight Pulse	

* Standard version

** L70B50 (See further details in data sheet)

Module size	130° lens	30° lens	25° lens and asymetric lens
			
	W x L: 38x33.5 mm H: 10 mm CC: 32 mm	W x L: 40x35 mm H: 16.5 mm Inner Ø: 26.5 mm CC: 32 mm	W x L: 37x33 mm H: 21 mm Inner Ø: 31.5 mm CC: 32 mm

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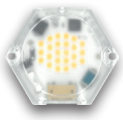
CLARA

OptoDrive® CLARA is a small and very versatile complete LED-light engine that can easily be used in many types of fittings

- Suitable for a variety of applications
- Versions for 120VAC
- Available in Ra>80, Ra>90 and Ra>96
- Easy and safe mounting with connectors
- Long life-time: 50 000 hours



TAURUS | BELID
Design: Joakim Fihn
Photo: Belid
Module: Clara AC IP65/IP67



CLARA AC
24LED



CLARA AC
IP65/IP67



CLARA AC
Corridor



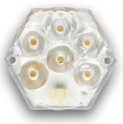
CLARA AC
50°



CLARA AC
OH



CLARA ED
28LED

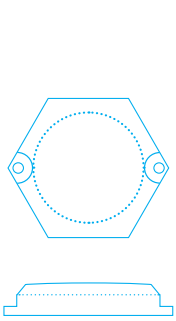
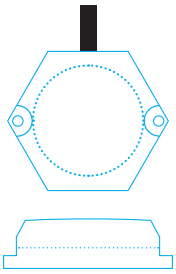
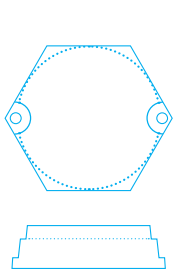
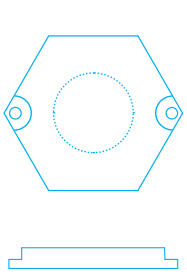
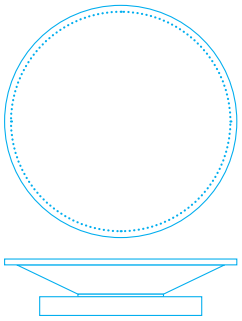


CLARA ED
6LED

Power (Watt)	2W 6W 10W 16W	4W 8W 12W	6W	10W	8+2W (2 channel)	5W	10W	5W	10W	9W (700mA)	18W (350mA)	
Light output (Lumen)	250lm 750lm 1 100lm 1 450lm	500lm 900lm 1 350lm	650lm	1 000lm	800+200lm	500lm	950lm	500lm	1 000lm	980lm (700mA)	600lm (350mA)	
LED (Quantity)	24		24		24+12	COB		COB		28	6	
Power supply (Volt)	230VAC 120VAC (No driver required)		230VAC 120VAC (No driver required)		230VAC (No driver required)	230VAC (No driver required)		230VAC (No driver required)		- (External driver)	- (External driver)	
CRI (Ra)	Ra>80* Ra>90		Ra>80		Ra>80* Ra>90	Ra>80* Ra>90		Ra>80* Ra>90		Ra>90* Ra>80	Ra: 96 (R9: 98)	
CCT (Kelvin)	2 700K 3 000K* 4 000K		2 700K 3 000K* 4 000K		2 700K 3 000K* 4 000K	2 700K 3 000K* 4 000K		2 700K 3 000K* 4 000K		2 700K 3 000K* 4 000K	3 000K* 4 000K	
Spread angle (Degrees)	Cover 130°		110°		Cover 130°	50°		OH 10° OH 15° OH 20° OH 25° OH 60°		Cover 130°	9.2°	
Dimmable	Yes		Yes		Yes	Yes		Yes		Yes	Yes	
Surge protection	1 000V on board		1 000V on board		1 000V external	1 000V on board		1 000V on board		-	-	
Lifetime	>50 000h**		>50 000h**		>50 000h**	>50 000h***		>50 000h***		>50 000h**	>50 000h**	
Ideal applications	Tasklight Ceiling Outdoor		Outdoor		Sensor light	Downlight		Spotlight		Ceiling Outdoor	Spotlight	
Features	Silicone coated		IP65/IP67 Integrated 60cm cable		2 channels corridor function							

CLARA ID MEDICAL - SEE END OF CATALOGUE

* Standard version
** L70B10 (See further details in data sheet)
*** L80B10 (See further details in data sheet)

Module size	Cover 130°	IP65 110°	50° 9.2°	Optical holder	Lens for optical holder
					
	W x L: 54x47 mm H: 12.3 mm CC: 48 mm	W x L: 58x51.5 mm H: 17 mm CC: 48 mm Cable: 600 mm	W x L: 55x48.5 mm H: 16.3 mm Inner Ø:47.5 mm CC: 48 mm	W x L: 53x47 mm H: 7.3 mm CC: 48 mm	Ø: 76 mm H: 19 mm

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SVEA

OptoDrive® SVEA is a complete LED-module with multiple options. Only 12mm thick and easily integrated into your fitting.

SVEA is now available as FlickerFree.

- **FlickerFree** (<10%)
- Suitable for retail and medical applications
- Up to 3 000 lumen
- Available in Ra>80, Ra>90 and Ra>96
- Easy and safe mounting with connectors
- Long life-time: 50 000 hours



SATELLIT | KONSTHANTVERK
Design: Johan Carpner
Photo: Konsthantverk



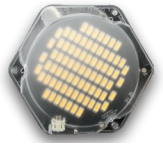
SVEA AC
FLICKERFREE



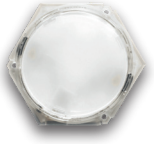
SVEA AC
42LED | 72LED



SVEA AC
Corridor



SVEA ED
77LED

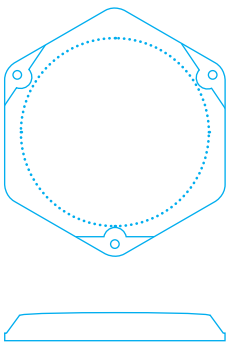
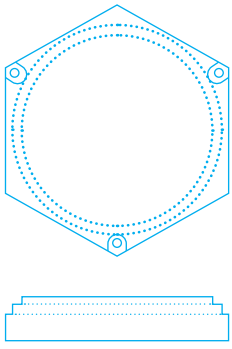
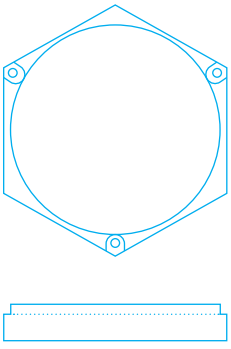


SVEA ED
12LED

Power (Watt)	20W	32W	12W	20W	32W	21+2W (2 channel)	25W (700mA)	27W (700mA)
Light output (Lumen)	2 000lm	3 000lm	1 100lm	2 000lm	3 000lm	2000+200lm	2 100lm (700mA)	1 600lm (700mA)
LED (Quantity)	72		42	72		72+12	77	12
Power supply (Volt)	230VAC (No driver required)		230VAC (No driver required)			230VAC (No driver required)	- (External driver)	- (External driver)
CRI (Ra)	Ra>90		Ra>80* Ra>90			Ra>80	Ra>90* Ra>80*	Ra>90* Ra>80*
CCT (Kelvin)	2 700K 3 000K* 4 000K		2 700K 3 000K* 4 000K			2 700K 3 000K* 4 000K	2 700K 3 000K* 4 000K	2 700K 3 000K* 4 000K
Spread angle (Degrees)	Cover 130°		Cover 130°			Cover 130°	Cover 130°	17° 85° TOD
Dimmable	Yes		Yes			Yes	Yes	Yes
Surge protection	1 000V on board		1 000V on board			1 000V on board	-	-
Flicker %	<10%		100%***			100%***	N/A	N/A
Flicker index	0.0155		TBD			TBD	N/A	N/A
Lifetime	>50 000h**		>50 000h**			>50 000h**	>50 000h**	>50 000h**
Ideal applications	Public areas		Ceiling Outdoor			Ceiling Sensor light	Ceiling	Downlight Tasklight Spotlight
Features	FlickerFree					2 channel corridor function		

SVEA ID MEDICAL - SEE END OF CATALOGUE

* Standard version
** L70B10 (See further details in data sheet)
*** IC control reduce off-time to miniumum

Module size	**Cover 130°**	**17° lens**	**TOD**
	 W x L: 82x92 mm H: 12 mm CC: 72 mm	 W x L: 83x95.5 mm H: 19 mm Inner Ø: 78 mm/72 mm CC: 72 mm	 W x L: 83x96 mm h: 15 mm Inner Ø: 78 mm CC: 72 mm

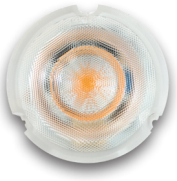
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STEFFI

OptoDrive® STEFFI is a round complete light module in a compact package, suitable for decorative lighting and downlights.

- Ideal for downlights and spotlight applications
- Up to 1 000 lumen
- Two lens options 25° and 50°
- Available in Ra>80 and Ra>90
- Ø 45mm







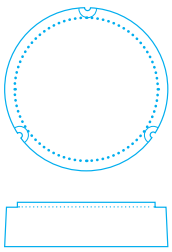
	STEFFI-D AC		STEFFI-C ED
Power (Watt)	5W	10W	9W (700mA)
Light output (Lumen)	550lm	1 000lm	600lm (700mA)
LED (Quantity)	COB		3
Power supply (Volt)	230VAC 120VAC (No driver required)		- (External driver)
CRI (Ra)	Ra>80* Ra>90		Ra>90
CCT (Kelvin)	2 700K 3 000K* 4 000K		2 700K 3 000K* 4 000K
Spread angle (Degrees)	50° 25°		50°
Dimmable	Yes		Yes
Surge protection	1 000V on board		-
Lifetime	>50 000h***		>50 000h**
Ideal applications	Decorative Downlight		Decorative Downlight Tasklight
Features			Based on Felicia PCB

* Standard version

** L70B10 (See further details in data sheet)

**' L80B10 (See further details in data sheet)

Module size	**Steffi-D** **Steffi-C**



Ø: 45 mm
Inner Ø:38 mm
H: 13 mm

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CRYSTAL

OptoDrive® CRYSTAL is a round module with three crispy lens alternatives for downlights.

- Very low glare thanks to special optics
- Long life-time: 50 000 hours
- Ø 51mm





CRYSTAL AC

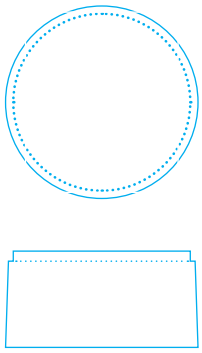
Power (Watt)	5W	10W
Light output (Lumen)	450lm	950lm
LED (Quantity)	COB	
Power supply (Volt)	230VAC (No driver required)	
CRI (Ra)	Ra>80* Ra>90	
CCT (Kelvin)	2 700K 3 000K* 4 000K	
Spread angle (Degrees)	25°, 40°, 60° Crystal lens	
Dimmable	Yes	
Surge protection	1 000V on board	
Lifetime	>50 000h***	
Ideal applications	Downlight	

* Standard version

** L70B10 (See further details in data sheet)

**’ L80B10 (See further details in data sheet)

Module size	**Crystal 40°**



Ø: 51 mm
Inner Ø: 46 mm
H: 24 mm

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ADA

OptoDrive® ADA is a new flickerfree high performance AC LED-engine especially developed for professional retail spotlights.

- **FlickerFree** (<10%)
- High CRI
- Available with hybrid lens or reflectors
- Long life-time: 50 000 hours
- Ø 76mm



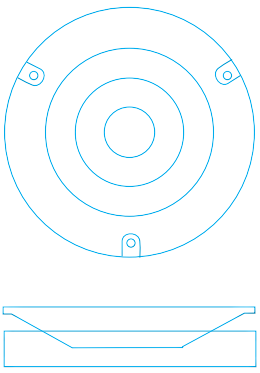


ADA AC
FLICKERFREE

Power (Watt)	20W
Light output (Lumen)	1 550lm
LED (Quantity)	22
Power supply (Volt)	230VAC (No driver required)
CRI (Ra)	Ra>90
CCT (Kelvin)	2 700K 3 000K* 3 700K 4 000K 5 000K
Spread angle (Degrees)	OH 10° OH 15° OH 20° OH 25° OH 60° Also available with reflector holder
Dimmable	Yes
Surge protection	1 000V on board
Flicker %	<10%
Flicker index	0.0275
Lifetime	>50 000h***
Ideal applications	Spotlight

* Standard version
**' L80B10 (See further details in data sheet)

Module size	**ADA AC**



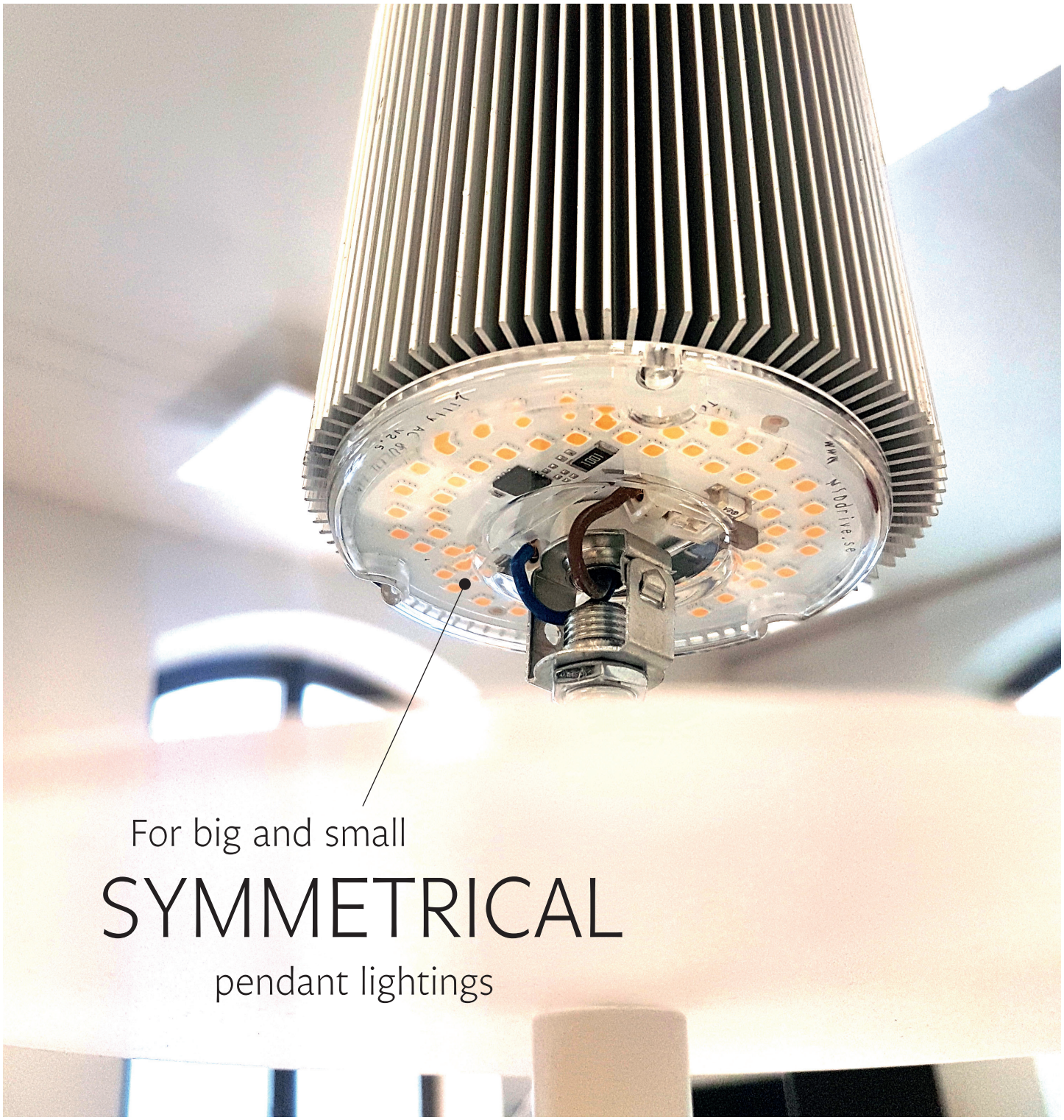
Ø: 76 mm
H: 18,2 mm

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LILLY

OptoDrive® LILLY has a round design and high lumen output. Perfect for pendants.
Available in two sizes.

- Up to 3 200 lumen
- Round design with center-mounted wire
- Prepared for industrial mounting with poke-in connectors
- Long life-time: 50 000 hours
- Ø 60mm and 80mm



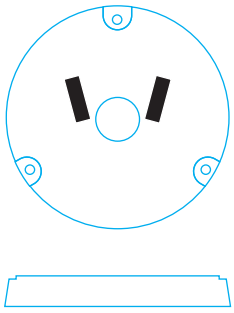
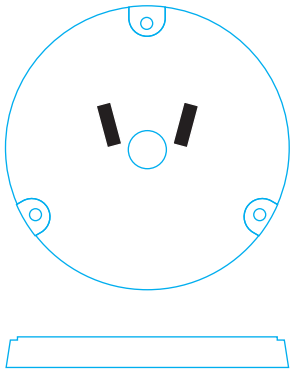




	LILLY60 AC	LILLY80 AC		
Power (Watt)	4W	10W	22W	32W
Light output (Lumen)	430lm	1 100lm	2 200lm	3 200lm
LED (Quantity)	24	60		
Power supply (Volt)	230VAC 120VAC (No driver required)	230VAC (No driver required)		
CRI (Ra)	Ra>80* Ra>90	Ra>80* Ra>90		
CCT (Kelvin)	2 700K 3 000K* 4 000K	2 700K 3 000K* 4 000K		
Spread angle (Degrees)	Cover 130°	Cover 130°		
Dimmable	Yes	Yes		
Surge protection	1 000V on board	1 000V on board		
Lifetime	>50 000h**	>50 000h**		
Ideal applications	Pendant	Pendant		
Features	Hole for center mount	Hole for center mount		

* Standard version

** L70B10 (See further details in data sheet)

Module	Lilly60 AC 130°	Lilly80 AC 130°
		
	Center Ø: 13 mm Ø: 60 mm H: 10 mm	Center Ø: 12 mm Ø: 80 mm H: 10 mm

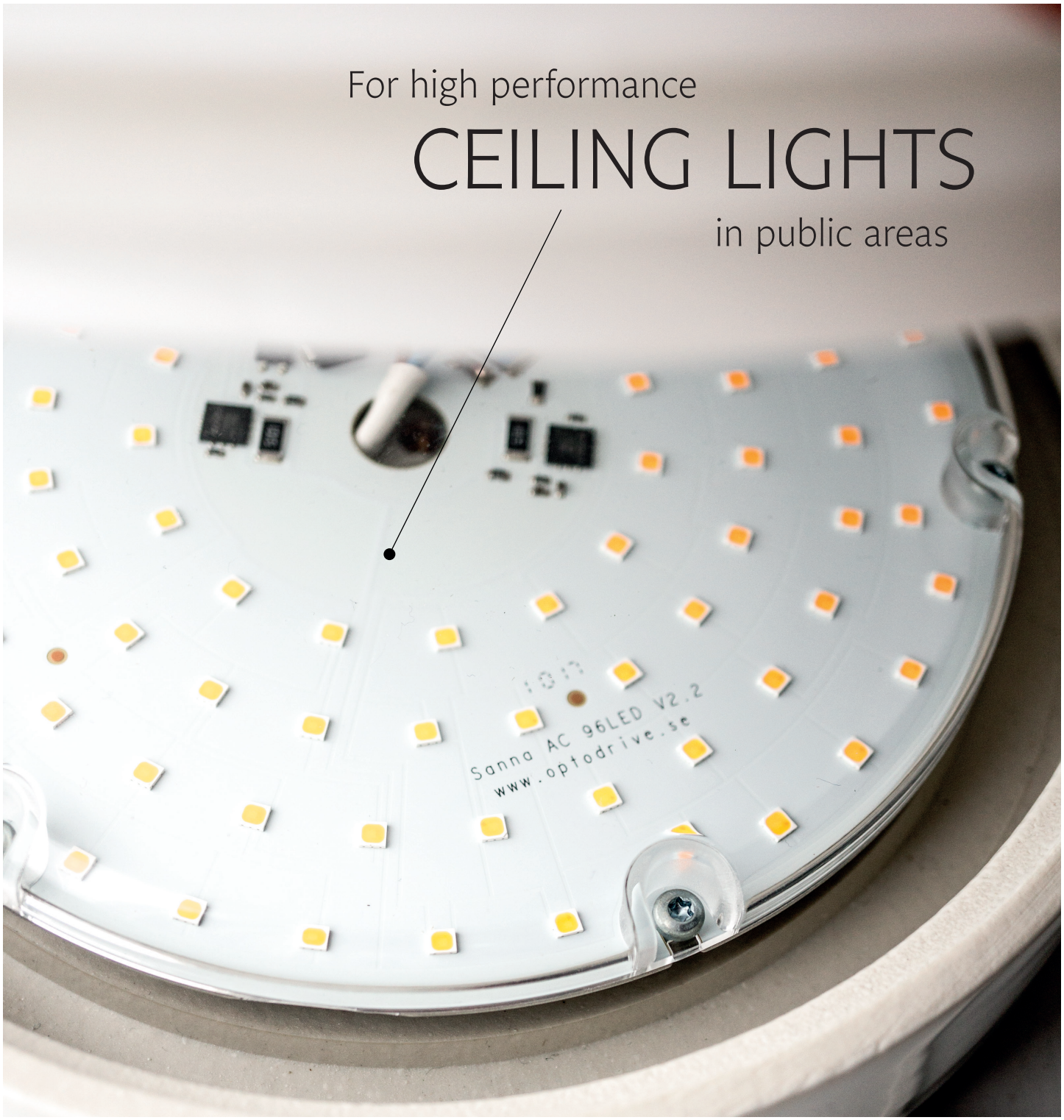
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SANNA

OptoDrive® SANNA has a big round design and high lumen output. Perfect for pendants and bulkheads.

SANNA is now available as FlickerFree.

- **FlickerFree** (<10%)
- Up to 3 900 lumen
- Round design with center-mounted wire
- Long life-time: 50 000 hours
- Ø 158.5mm





SANNA AC
FLICKERFREE

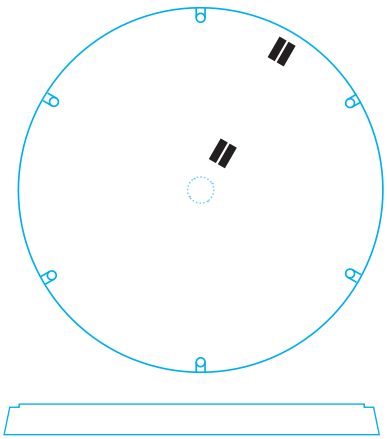


SANNA AC

Power (Watt)	12W	20W	12W	32W
Light output (Lumen)	1 400lm	2 400lm	1 400lm	3 900lm
LED (Quantity)	96		96	
Power supply (Volt)	230VAC		230VAC	
CRI (Ra)	Ra>90		Ra>80* Ra>90	
CCT (Kelvin)	2 700K 3 000K* 4 000K		2 700K 3 000K* 4 000K	
Spread angle (Degrees)	Cover 130°		Cover 130°	
Dimmable	Yes		Yes	
Surge protection	1 000V on board		1 000V on board	
Flicker %	<10%		100%***	
Flicker index	0.0206		TBD	
Lifetime	>50 000h**		>50 000h**	
Ideal applications	Ceiling		Ceiling	
Features	**FlickerFree**			

* Standard version
** L70B10 (See further details in data sheet)
*** IC control reduce off-time to miniumum

Module	**Sanna AC 130°**



Center Ø: 12mm
Ø: 158.5mm
H: 10 mm

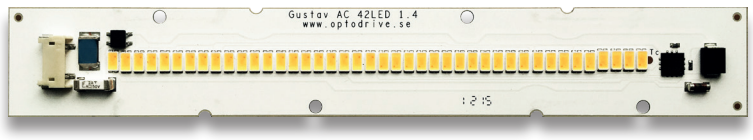
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732 31 Arboga, SWEDEN
E-mail: info@optoga.com
Web: www.optoga.com
Tel: +46 (0)589-490 950

GUSTAV

OptoDrive® GUSTAV is designed to be used without a driver and is easily integrated in 230VAC applications.

- Suitable for bathroom- and outdoor lights
- Prepared for appliance class II
- Easy and safe mounting with connectors
- Long life-time: 50 000 hours





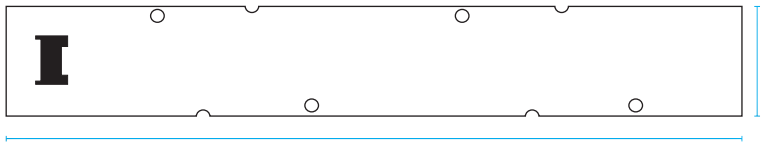
GUSTAV AC

Power (Watt)	10W
Light output (Lumen)	1 000lm
LED (Quantity)	42
Power supply (Volt)	230VAC (No driver required)
CRI (Ra)	Ra>80* Ra>90
CCT (Kelvin)	2 700K 3 000K* 4 000K
Spread angle (Degrees)	120° (Without cover)
Dimmable	Yes
Surge protection	1 000V on board
Lifetime	>50 000h**
Ideal applications	Tasklight Outdoor
Features	Prepared for electrical appliance class II

*Standard version

** L70B10 (See further details in data sheet)

Module size	**Gustav AC**



W x L: 203x30mm

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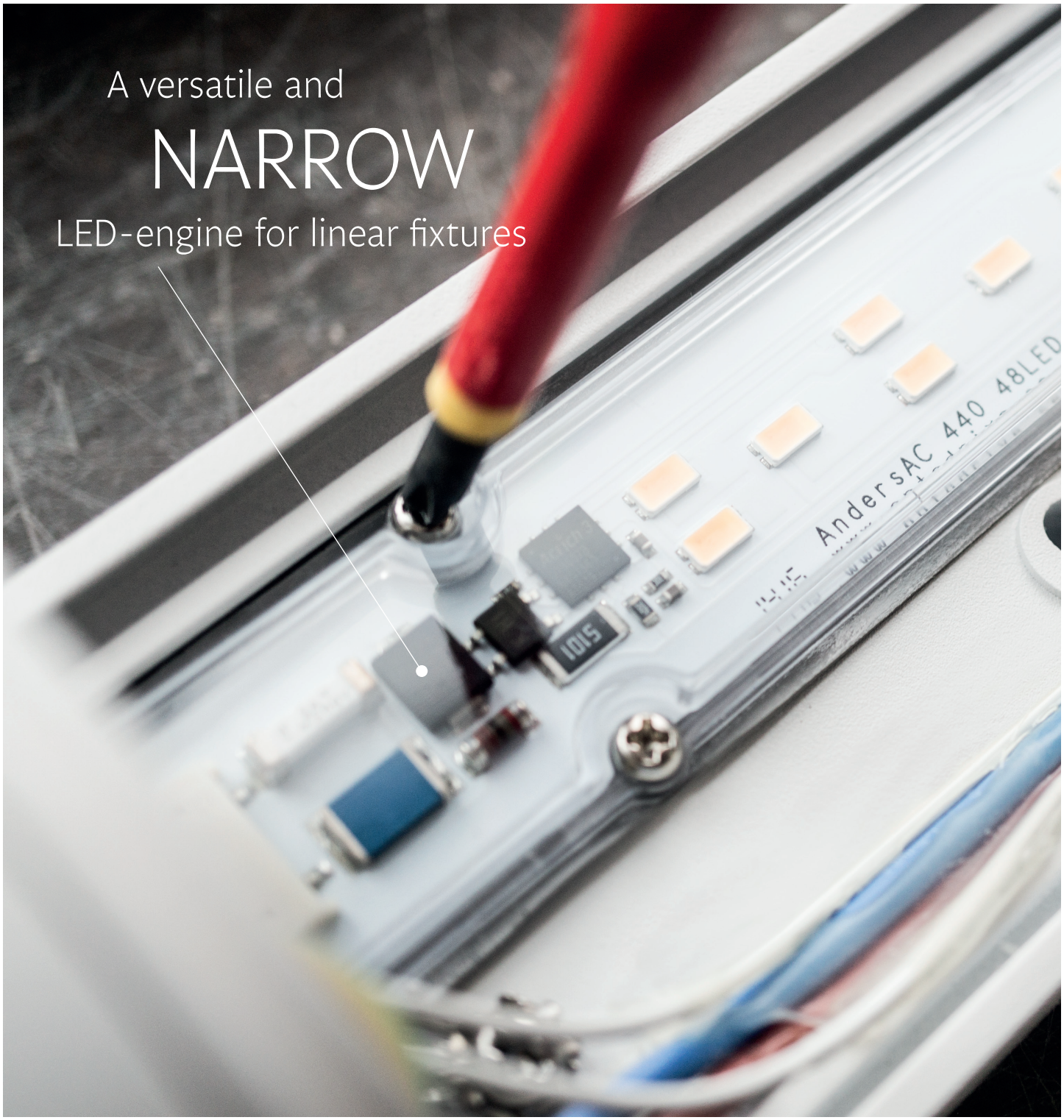
E-mail: info@optoga.com
Web: www.optoga.com

Tel: +46 (0)589-490 950

ANDERS

OptoDrive® ANDERS is a narrow linear LED-light engine. It comes in many different lenghts and power options and has a width of only 24mm.

- Ideal replacement for T5 and T8
- Up to 3 000 lumen
- Length from 270mm to 840mm
- Available in Ra>80 and Ra>90
- Easy and safe mounting with connectors
- Long life-time: 50 000 hours







	ANDERS 270 AC		ANDERS 440 AC		ANDERS 550 AC		ANDERS600 AC	ANDERS 840 AC	ANDERS 280 ED
Power (Watt)	4W	11W	9W	16W	9W	21W	21W	30W	14W (700mA)
Light output (Lumen)	350lm	1150lm	900lm	1 600lm	900lm	2 000lm	2 200lm	3 000lm	1 500lm (700mA)
LED (Quantity)	12	36	24	48	24	72	72	96	42
Power supply (Volt)	230VAC (No driver required)		230VAC (No driver required)		230VAC (No driver required)		230VAC (No driver required)	230VAC (No driver required)	- (External driver)
CRI (Ra)	Ra>80* Ra>90		Ra>80* Ra>90		Ra>80* Ra>90		Ra>80* Ra>90	Ra>80* Ra>90	Ra>80* Ra>90
CCT (Kelvin)	2 700K 3 000K* 4 000K		2 700K 3 000K* 4 000K		2 700K 3 000K* 4 000K		2 700K 3 000K* 4 000K	2 700K 3 000K* 4 000K	2 700K 3 000K* 4 000K
Spread angle (Degrees)	120° (Without cover)		120° (Without cover)		120° (Without cover)		120° (Without cover)	120° (Without cover)	120° (Without cover)
Dimmable	Yes		Yes		Yes		Yes	Yes	Yes
Surge protection	1 000V on board		1 000V on board		1 000V on board		1 000V on board	1 000V on board	-
Lifetime	>50 000h**		>50 000h**		>50 000h**		>50 000h**	>50 000h**	>50 000h**
Ideal applications	Tasklight Linear		Tasklight Linear		Linear		Linear	Linear	Tasklight Linear
Features									Possible to daisy chain

* Standard version
** L70B10 (See further details in data sheet)

Module size

Anders270 AC



W x L: 270x24 mm

Anders440 AC



W x L: 440x24 mm

Anders 550 AC



W x L: 550x24 mm

Anders600 AC



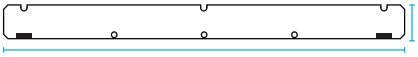
W x L: 600x24 mm

Anders840 AC



W x L: 840x24 mm

Anders280 ED



W x L: 280x24 mm

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THEO

OptoDrive® THEO is possible to daisy-chain for long linear lightings and is easy to integrate.

THEO is now available as FlickerFree.

- **FlickerFree** (<10%)
- Zhaga compatible
- Prepared for electrical appliance class II
- Long life-time: 50 000 hours







	THEO AC L28W4 FlickerFree		**THEO AC** L28W4 FlickerFree		**THEO AC** L56W4		**THEO AC** L56W4	
Power (Watt)	9W	16W	16W	32W	9W	16W	16W	32W
Light output (Lumen)	950lm	1 700lm	1 700lm	3 200lm	950lm	1 700lm	1 700lm	3 200lm
LED (Quantity)	12	24	24	48	12	24	24	48
Power supply (Volt)	230VAC (No driver required)		230VAC (No driver required)		230VAC (No driver required)		230VAC (No driver required)	
CRI (Ra)	Ra>90		Ra>90		Ra>80* Ra>90		Ra>80* Ra>90	
CCT (Kelvin)	2 700K 3 000K* 4 000K		2 700K 3 000K* 4 000K		2 700K 3 000K* 4 000K		2 700K 3 000K* 4 000K	
Spread angle (Degrees)	120° (Without cover)		120° (Without cover)		120° (Without cover)		120° (Without cover)	
Dimmable	Yes		Yes		Yes		Yes	
Surge protection	1 000V on board		1 000V on board		1 000V on board		1 000V on board	
Flicker %	<10%		<10%		100%***		100%***	
Flicker index	0.0206		0.0206		TBD		TBD	
Lifetime	>50 000h**		>50 000h**		>50 000h**		>50 000h**	
Ideal applications	Tasklight Linear		Linear		Tasklight Linear		Linear	
Features	**FlickerFree** Possible to daisy chain Zhaga compatible Prepared for appliance class II		**FlickerFree** Possible to daisy chain Zhaga compatible Prepared for appliance class II		Possible to daisy chain Zhaga compatible Prepared for appliance class II		Possible to daisy chain Zhaga compatible Prepared for appliance class II	

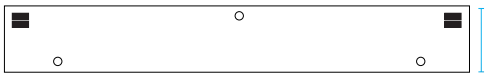
* Standard version

** L70B10 (See further details in data sheet)

*** IC control reduce off-time to miniumum

Module size

THEO AC L28W4



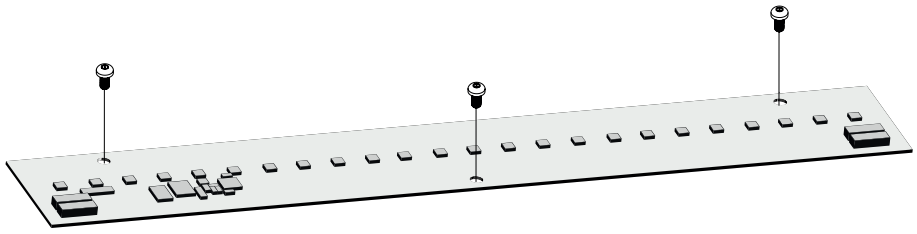
W x L: 280x41 mm

THEO AC L56W4



W x L: 560x41 mm (Zhaga compatible)

Mounting



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Medical LED

Complete LED modules for medical luminaires

OptoDrive LED modules provide you with exquisite and flexible LED light sources that comply with the highest demands in medical applications*. Tests show that OptoDrive is suitable even for tasks compliant with the cyanosis observation index (COI)**.

* IEC 60601-1
The harmonized standard for medical electrical equipment recognized by public health authorities in most countries such as USA, Canada, Brazil, Japan and in the European Union.

** COI as per AS1680.2.5:1997



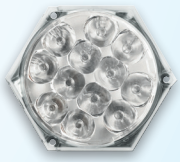
CLARA ID:3
MEDICAL



CLARA ID:6
MEDICAL



SVEA ID:7
MEDICAL



SVEA ID:12
MEDICAL



SVEA ID:12CCT
MEDICAL

Power consumption (Watt)	4W	8W	12W	10W	15W	17W	12-14W
Luminous flux (Lumen)	350lm	580lm	900lm	1 000lm	1 400lm	1 400lm	1 170lm**** (2 340lm)
Illuminance (max lux 1.0m)		>8 000lx	>18 000lx	>18 000lx	>25 000lx	>30 000lx	>20 000lx
Light field diameter	D50: TBD D10: 180mm		D50: 164mm D10: 313mm	D50: 121mm D10: 237mm		D50: 131mm D10: 258mm	D50: 131mm D10: 258mm
Beam uniformity (D50/D10 ratio)	TBD		0.52	0.51		0.51	0.51
Supply voltage (Volt)	12-36VDC		24-36VDC	30-36VDC		24-36VDC	24-36VDC
CRI	Ra97 (R9: 96)		Ra97 (R9: 88)	Ra98 (R9: 98)		Ra98 (R9: 98)	Ra96 (R9:96)
CCT	3 000K 4 000K		4 000K	4 000K		4 000K	Adjustable CCT: 3 500K, 4 000K 4 500K
Beam spread	12° 25° 40°		9°	8°		9°	9°
Dimensions	50x48.5mm Height: 16.5mm		50x48.5mm Height: 16.5mm	83x95.5mm Height: 19mm		83x95.5mm Height: 19mm	83x95.5mm Height: 19mm
Lifetime	>50 000h**		>50 000h**	>50 000h**		>50 000h**	>50 000h**
Ideal applications	Bedlight		Examination light	Examination light		Minor surgery	Minor surgery
Information	Integrated driver		Integrated driver	Integrated driver		Integrated driver	Integrated driver Adjustable CCT

** L70B10 (See further details in data sheet)
**** Digitally dimmed



OptoDrive reduces environmental impact

OptoDrive reduces environmental impact thanks to an energy efficiency that is second to none. The modules contain no toxic substances and have a very long service life. This service life means significant cost savings for the end user, especially if the modules are used for general lighting in large rooms.

- **10% of the energy consumption of an incandescent bulb**
- **20% of the energy consumption of a halogen bulb**
- **No toxic substances such as mercury or lead**
- **Over 50 000 hours operating hours with proper heat management**

Greener and more energy efficient

Six times more energy efficient than incandescent bulbs, 50% better than fluorescent or low-energy bulbs! One LED-module is equivalent to the life of 50 incandescent bulbs.

OPTOGA

LED-modules

AC LED-ENGINES		POWER	OUTPUT	CRI	BEAM ANGLE	SIZE	FEATURE	APPLICATION
FELICIA AC		2W	150lm	Ra>80	130°	38x33.5mm	-	Decorative
		4W	230lm		25°	37x33		
					Asymmetric 60x25°	38x33.5mm		
CLARA AC	24LED	2W	250lm	Ra>80* Ra>90	130°	54x47mm	**Available for 120V**	Decorative Ceiling Outdoor
		4W	500lm					
		6W	750lm					
		8W	900lm					
		10W	1 100lm					
		12W	1 350lm					
		16W	1 450lm					
	IP65	6W	650lm	Ra>80	110°	58x51.5mm	**IP65/IP67** **Available for 120V**	Outdoor
		10W	1000lm					
	Corridor	8+2W	800+200lm (2-channel)	Ra>80* Ra>90	130°	54x47mm	**2-channel**	Sensor light
	COB	5W	500lm	Ra>80* Ra>90	130° 50°	55x48.5mm	1 000lm	Downlight
		10W	950lm					
	OH	5W	550lm	Ra>80* Ra>90	OH 10°/15°/20°/25°/60°	ø: 76mm	-	Spotlight
		10W	1 000lm					
SVEA AC	FlickerFree	20W	2 000lm	Ra>90	130°	82x92mm	**FlickerFree**	Ceiling
		32W	3 000lm					
	42LED	12W	1 100lm	Ra>80* Ra>90	130°	82x92mm	-	Ceiling
	72LED	20W	2 000lm	Ra>80* Ra>90	130°	82x92mm	-	Ceiling
		32W	3 000lm					
	Corridor	21+2W	2 000+200lm	Ra>80	130°	82x92mm	**2-channel**	Sensor light
STEFFI-D AC	COB	5W	550lm	Ra>80* Ra>90	50° 25°	ø: 45mm	**Available for 120V**	Downlight
		10W	1 000lm					
CRYSTAL AC		5W	450lm	Ra>80* Ra>90	40° Crystal	ø: 51mm	-	Downlight
		10W	950lm					
ADA AC		20W	1 550lm	Ra>90	OH 10°/15°/20°/25°/60°	ø: 76mm	**FlickerFree**	Spotlight
LILLY60 AC		4W	430lm	Ra>80* Ra>90	130°	ø: 60mm	**Available for 120V**	Decorative
LILLY80 AC		10W	1 100lm	Ra>80* Ra>90	130°	ø: 80mm	-	Pendant
		22W	2 200lm					
		32W	3 200lm					
SANNA AC	FlickerFree	12W	1 400lm	Ra>90	130°	ø: 158.5mm	**FlickerFree**	Ceiling
		20W	2 400lm					
		12W	1 400lm	Ra>80* Ra>90	130°	ø: 158.5mm	-	
		32W	3 900lm					
GUSTAV AC		10W	1 000lm	Ra>80 Ra>90*	120° (no cover)	203x30mm	-	Outdoor
ANDERS AC	280 AC	4W	350lm	Ra>80 Ra>90*	120° (no cover)	270x24mm	-	Linear
		11W	1 150lm					
	440 AC	9W	900lm	Ra>80 Ra>90*	120° (no cover)	440x24mm	-	
		16W	1 600lm					
	550 AC	9W	900lm	Ra>80 Ra>90*	120° (no cover)	550x24mm	-	
		21W	2 000lm					
	600 AC	21W	2 200lm	Ra>80 Ra>90*	120° (no cover)	600x24mm	-	
	840 AC	30W	3 000lm	Ra>80 Ra>90*	120° (no cover)	840x24mm	-	
THEO AC	L28W4 FF	9W	950lm	Ra90	120° (no cover)	280x41mm	**Flickerfree**	Tasklight
		16W	1 600lm					
	L56W4 FF	16W	1 700lm	Ra90	120° (no cover)	560x41mm	**Flickerfree**	
		32W	3 200lm					
	L28W4	9W	950lm	Ra>80 Ra>90*	120° (no cover)	280x41mm	-	Linear
		16W	1 600lm					
	L56W4	16W	1 700lm	Ra>80 Ra>90*	120° (no cover)	560x41mm	-	
		32W	3 200lm					

ED LED-ENGINES		POWER	OUTPUT	CRI	SPREAD ANGLE	SIZE	FEATURE	APPLICATION
FELICIA ED		4W	120-220lm	Ra>90	30° 130°	40x35mm 38x33.5mm		Decorative Tasklight Outdoor
FELICIA ED	2C	4W	100-150lm	Ra>70	-	30.3x27mm	2 connectors	Built-in
	RGB	TBD	105lm	-	-		RGB	
	RED	4W	48lm	-	-		RED	
CLARA ED	28LED	9W	980lm (700mA)	Ra>90	130°	54x47mm		Ceiling
	6LED	18W	600lm (350mA)	Ra>90	9°	54x47mm		Tasklight
SVEA ED	12LED	27W	1 600lm (700mA)	Ra>90	17° 65° TOD Asymmetric	83x95.5mm		Tasklight
	77LED	25W	3 100lm (700mA)	Ra>90	130°	82x92mm		Ceiling
STEFFI-C ED		9W	600lm (700mA)	Ra>90	50°	ø: 45mm		Downlight
EDITH ED	230ED	14W 22W	1 680lm (700mA) 2 640lm (700mA)	Ra>80* Ra>90	120° (no cover)	ø: 230mm	-	Ceiling
	290ED	25W	3 000lm (700mA)	Ra>80* Ra>90	120° (no cover)	ø: 290mm	-	
ANDERS 270 ED		14W	1 500lm	Ra>80	120° (no cover)	280x24mm		Tasklight

ID LED-ENGINES	POWER	OUTPUT	CRI	SPREAD ANGLE	SIZE	FEATURE	APPLICATION
FELICIA ID	1W 4W	80lm 150lm	Ra>90	30° 130°	40x35mm 38x33.5mm	-	Decorative
ELLA ID	10W	810lm	Ra>90	120° (no cover)	ø: 120mm	-	Decorative Tasklight
VICTOR ID	4W 8W	300lm 640lm	Ra>90	14° | 20° | 30° | 60° Oval 14° x 23°	140x25mm	-	Tasklight Outdoor

ID MEDICAL LED		POWER	OUTPUT	CRI	SPREAD ANGLE	SIZE	APPLICATION	ACCESSORIES
CLARA ID 3LED		4W 8W	300lm 580lm	Ra97 (R9:96)	12° | 25° | 40°	55x48mm	Medical Bedlight	**DimLight:** Switch Flexswitch Dali Pulse
CLARA ID 6LED		12W	900lm	Ra97 (R9:88)	9.2°	55x48mm	Medical Examination	
SVEA ID 7LED		10W 15W	1 000lm 1 400lm	Ra98 (R9:98)	8°	83x96mm	Medical Examination	**DimLight:** Switch Flexswitch Dali Pulse
SVEA ID 12LED		17W	1 400lm	Ra98 (R9:98)	9°	83x96mm	Medical Minor surgery	
SVEA ID 12LED CCT		12-14W	1 170lm	Ra96 (R9:96)	9°	83x96mm	Medical Minor surgery	**DimLight:** CCT

* Optional
** Coming soon
*** Depending on version



Decorative Downlight Tasklight Spotlight Celing Linear Outdoor Medical

AC: LED-engines for 230VAC or 120VAC - no external driver required

ED: External driver required

ID: Internal driver

NOTES AND SKETCHES

NOTES AND SKETCHES

Do you want to know more about benefits of OptoDrive® LED?

With the OptoDrive® LED-light engines, Optoga has taken the initiative to replace strip lights, incandescent and halogen bulbs with LED-based sources.

Read more about OptoDrive® at www.optoga.com. You can also contact us via **info@optoga.com** or call us.

We provide optimized LED-light solutions, integrated light engines that enable luminaire manufacturers to focus on satisfying their end-customers with a perfect light.

Quicker and simpler.

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