

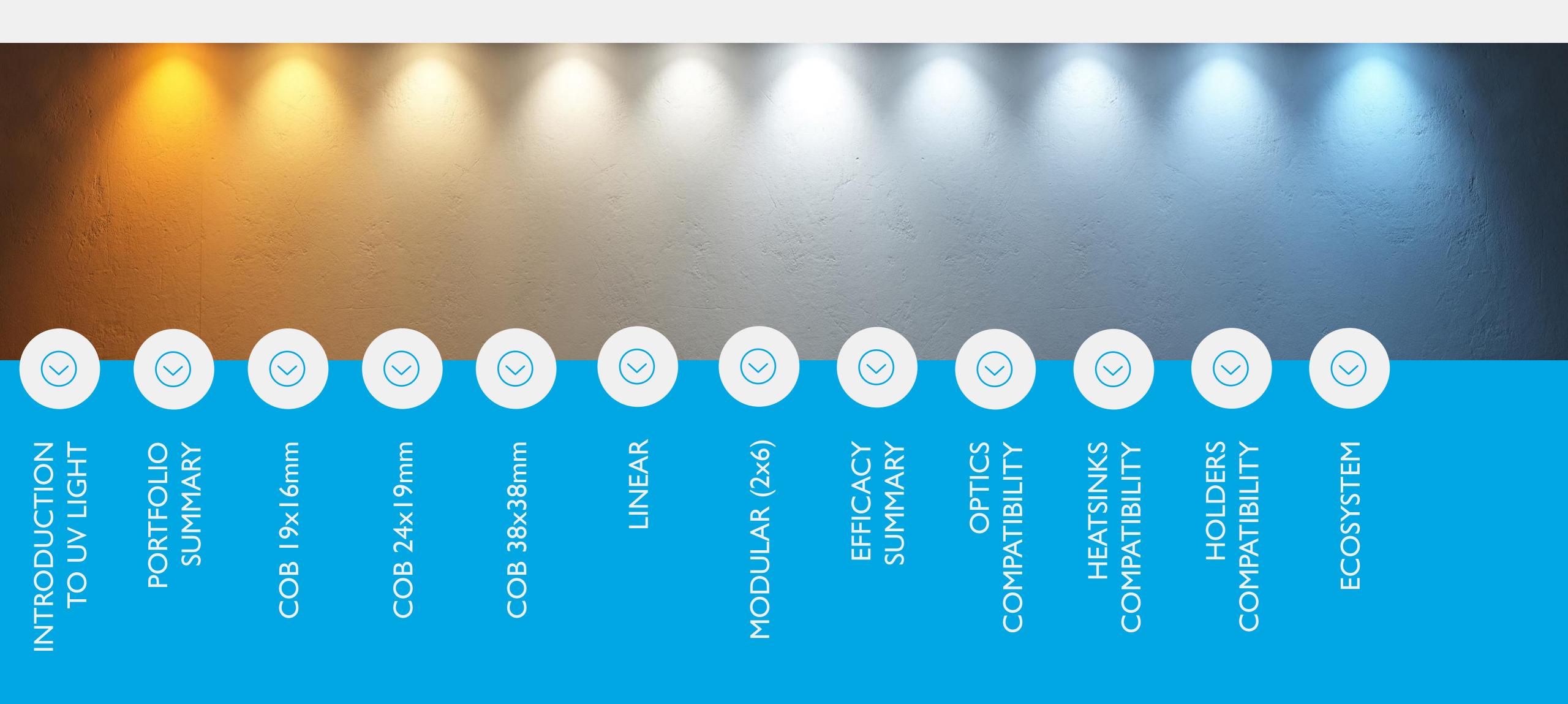
AUDAX ELECTRONICS UVC PORTFOLIO



LIGHTING: DECORATIVE, INDUSTRIAL, STREET LIGHTING, COMMERCIAL & CUSTOM PROJECTS









AUDAX ELECTRONICS





INTRODUCTION TO UV LIGHT

ULTRAVIOLET LIGHT

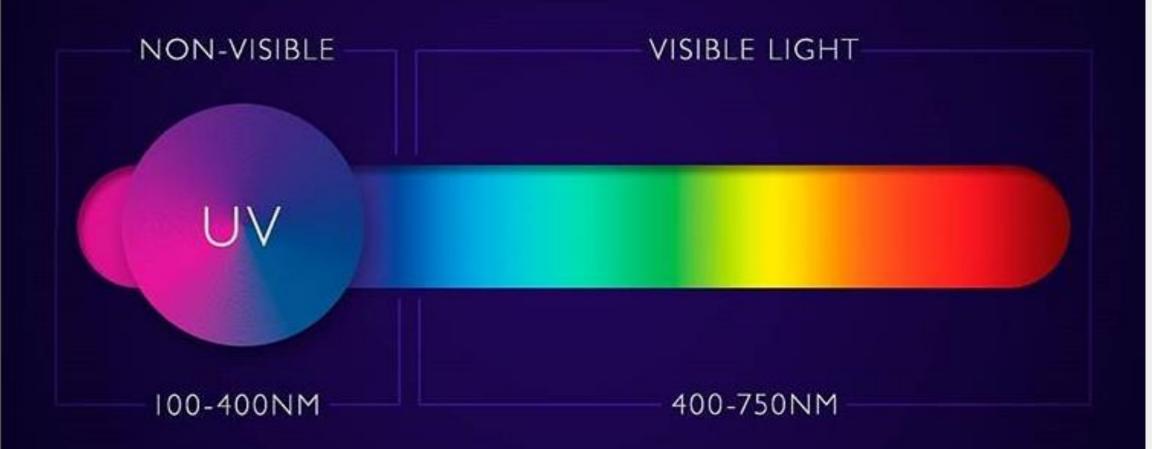
The human eye is sensitive to specific band of electromagnetic waves, known as the visible light spectrum.

At the ends of this very narrow spectrum there are some other lights, which are invisible to a naked eye. UV light, for instance, is considered a non-visible light due to its short wavelength, from 100 to 400nm (nanometers).

Although we may not see them, UV lights play an important role in our routines, from medical treatments to disinfection and even horticulture.



DID YOU KNOW UV LIGHT IS CONSIDERED A NON-VISIBLE LIGHT?

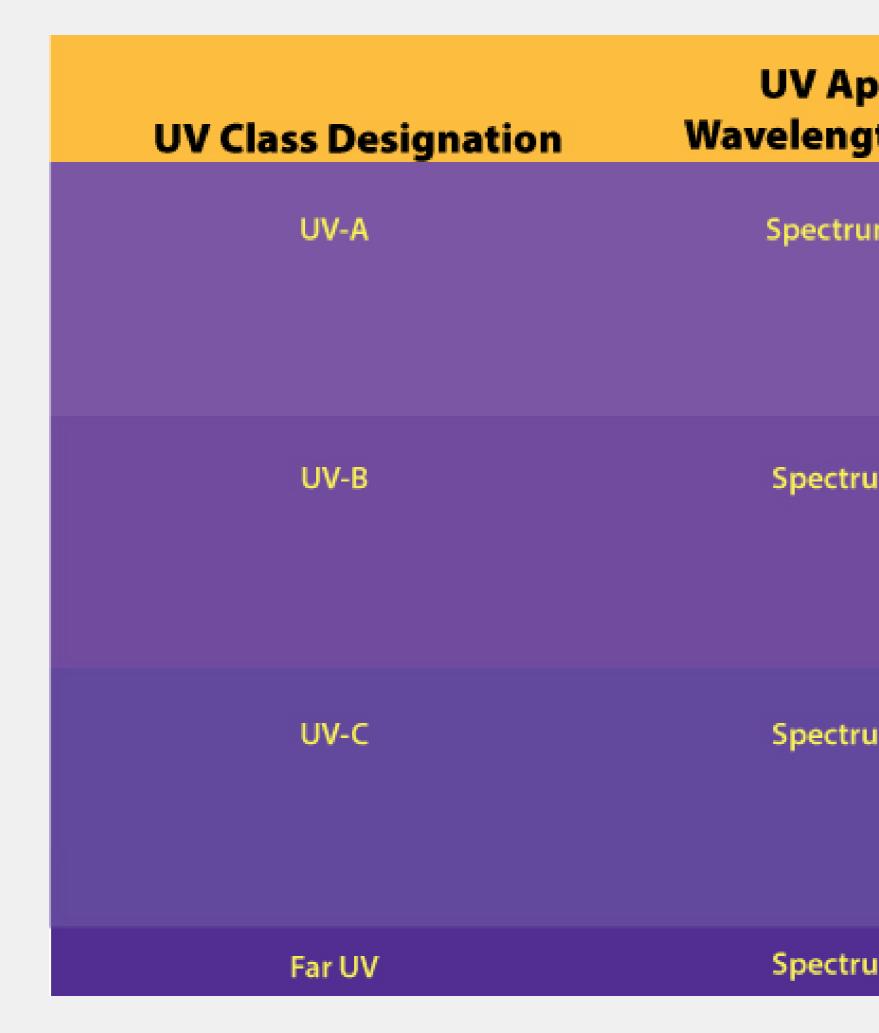


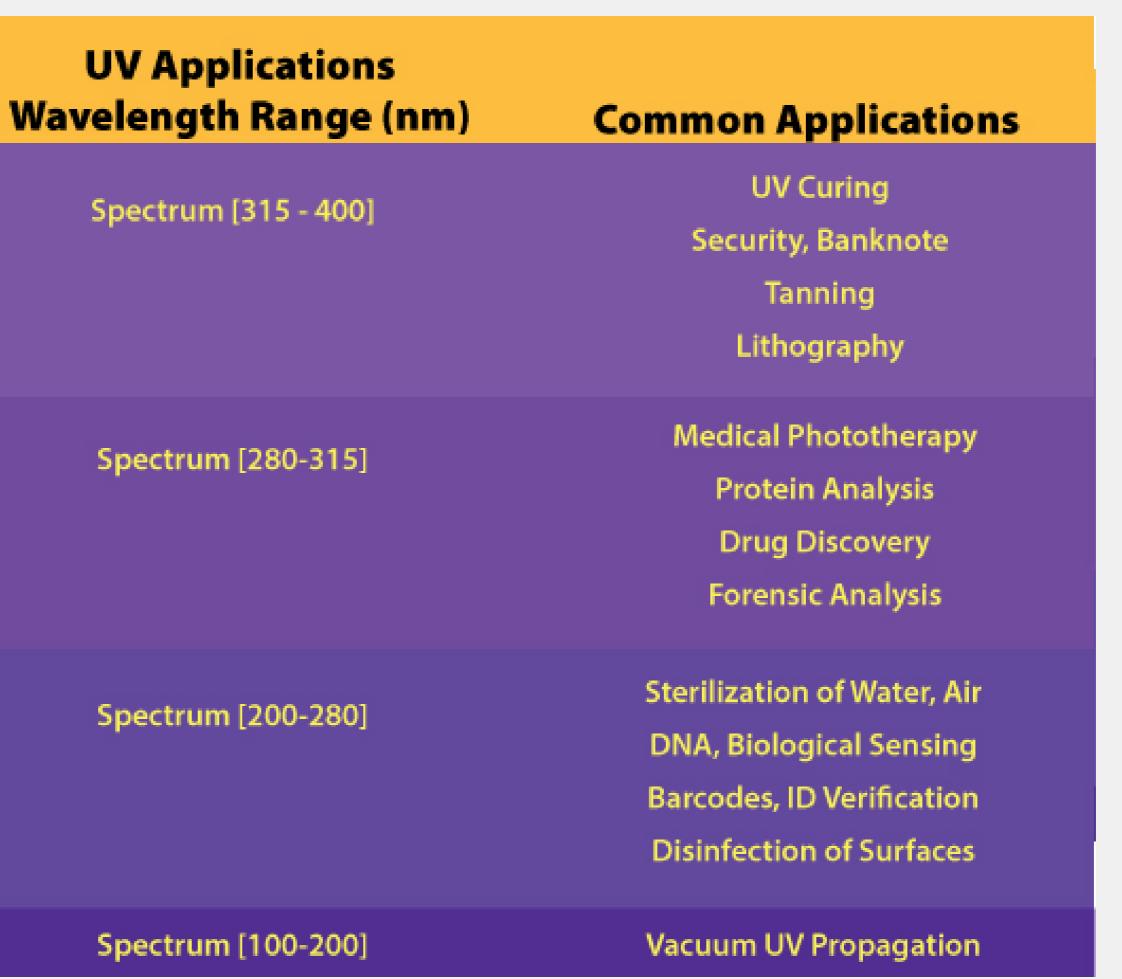
Sparking Innovation audaxled.com





ULTRAVIOLET LIGHT APPLICATIONS



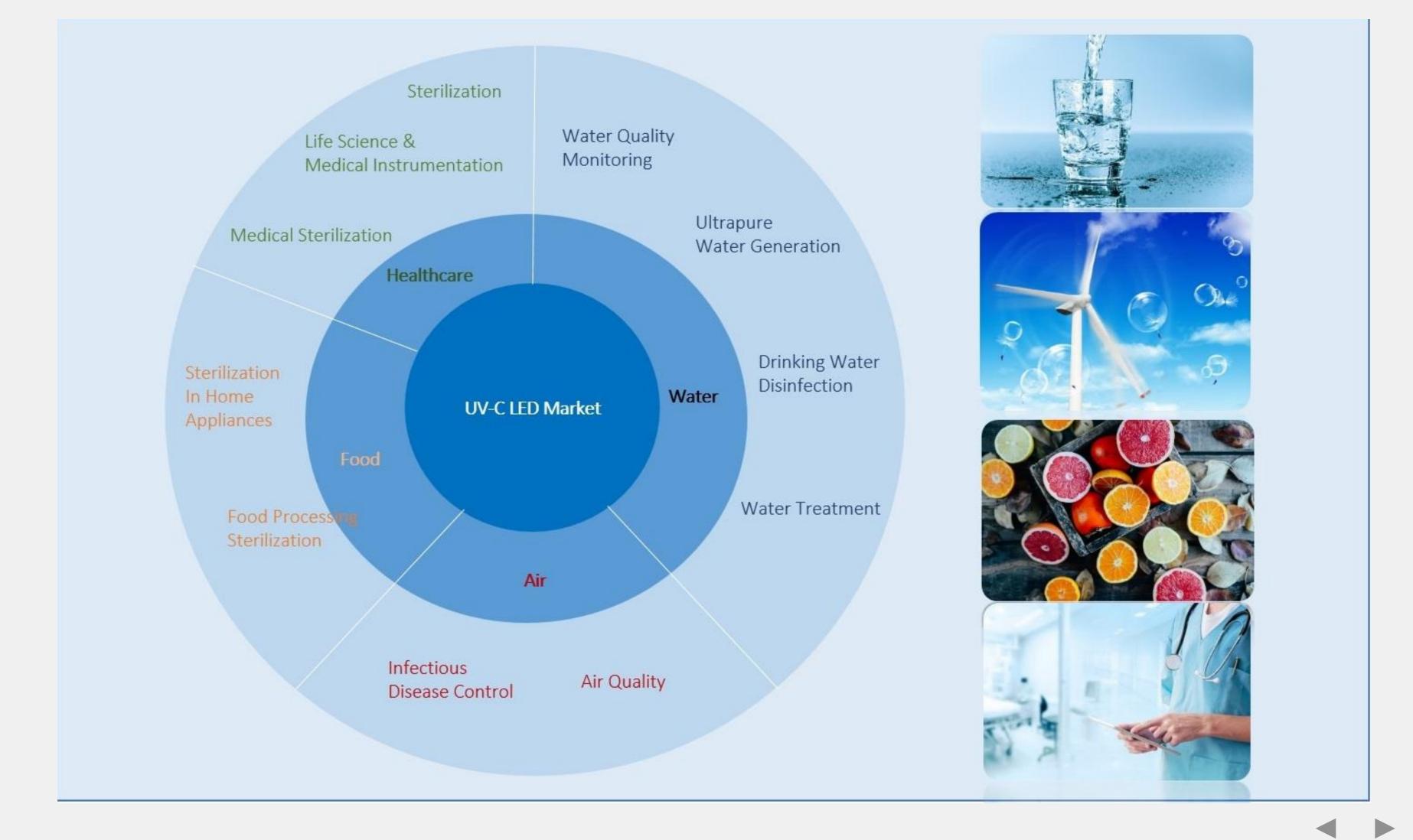








UVC DETAILED APPLICATIONS





HOW DOES DISINFECTION WORK?

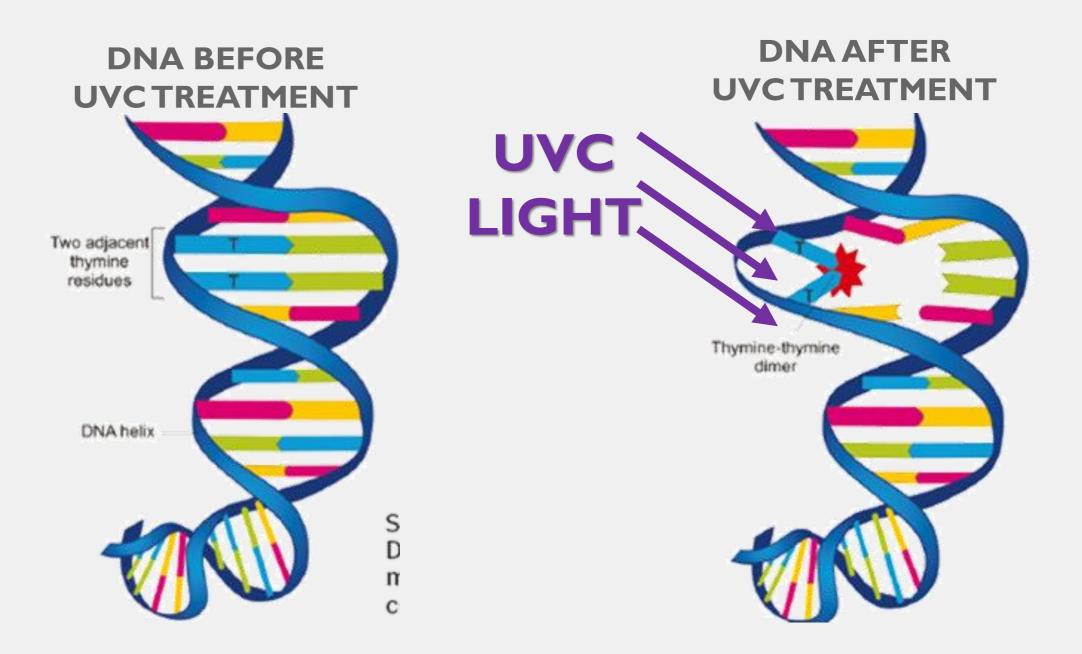
As evident by multiple research studies and reports, when biological organisms are exposed to deep UV light in the range of 200 nm to 300 nm it is absorbed by DNA, RNA, and proteins.

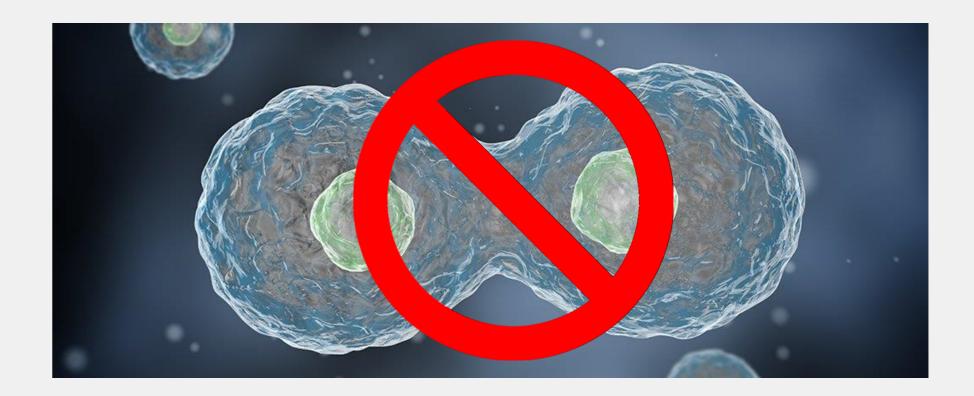
Absorption by proteins can lead to rupture of cell walls and death of the organism. Absorption by DNA or RNA (specifically by thymine bases) is known to cause inactivation of the DNA or RNA double helix strands through the formation of thymine dimers. If enough of these dimers are created in DNA, the DNA replication process is disrupted, and the cell cannot replicate.

CELLS THAT CANNOT REPLICATE, CANNOT INFECT.

It is widely accepted that it is not necessary to kill pathogens with UV light, but rather apply enough UV light to prevent the organism from replicating. The UV doses required to prevent replication are orders of magnitude lower than required to kill, making the cost of UV treatment to prevent infection commercially viable.









RESPONSE TO UV EXPOSURE

The effects of acute exposure to UV radiation are usually not severe and many symptoms are delayed. In the event of UV exposure, the following actions are recommended.

See an ophthalmologist if eye damage is suspected.

Treat skin lesions immediately.

Follow your organization's EHS incident reporting procedure. These often require documentation of the date and time of the incident, persons involved, equipment involved and type of injury.

UVC EFFECT ON SKIN

Acute (short-term) effects include redness or ulceration of the skin. At high levels of exposure, these burns can be serious. For chronic (longterm) exposures, there is also a cumulative risk, which depends on the amount of exposure during your lifetime. The long-term risk for large cumulative exposure includes premature aging of the skin and skin cancer.







UVC EXPOSURE HAZARD DO NOT LOOK AT OR ENTER UNIT WITHOUT FIRST TURNING OFF ULTRAVIOLET LIGHTING

Crastoweakitya.pply.com 066-777-5360 #1523334-46







PORTFOLIO SUMMARY



PORTFOLIO SUMMARY



by Crystal 米IS



High quality UVC LEDs can be the greatest allies to destroy dangerous pathogens.

And Crystal IS can count on a **world-class partner** to provide effective disinfection.

Meet our brand new series of light engines, powered by **AUDAX Electronics**.



FOR MORE INFORMATION GO TO Cdiweb.com

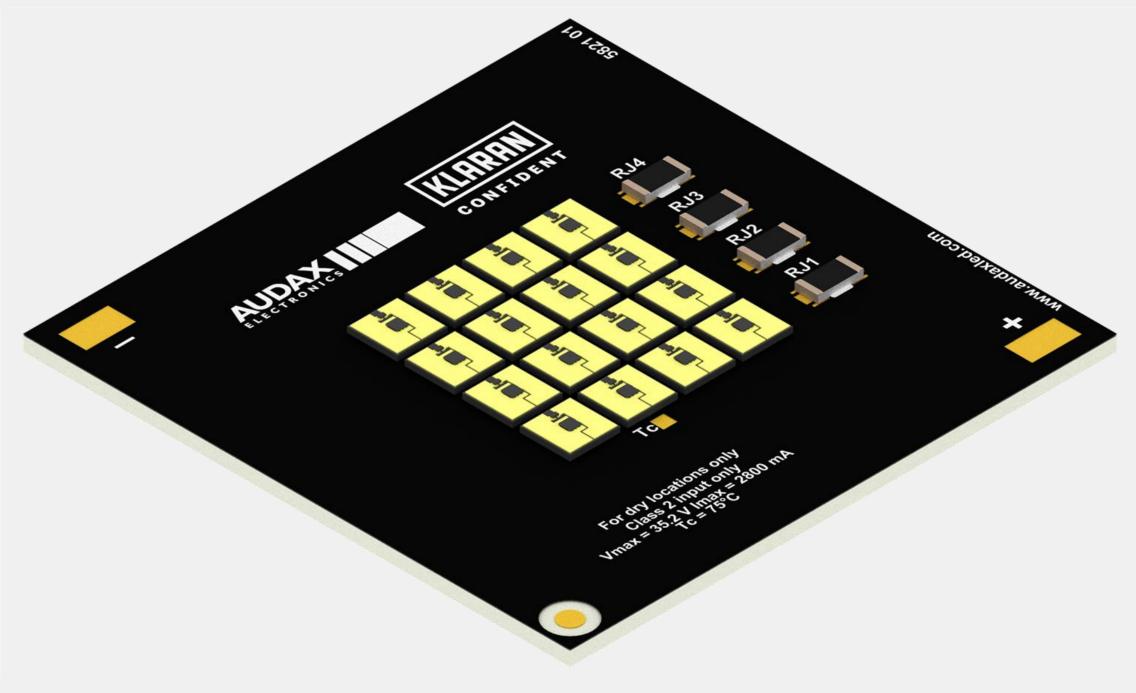




COB 19x16mm	Rad. Power	Power
	70mW	4.0W
COB 24x19mm	Rad. Power	Power
	280mW	16.0W
COB 38x38mm	Rad. Power	Power
	630 – I,I20mW	36.0 – 64.0W
LINEAR	Rad. Power	Power
	393.1 – 840.0mW	19.6 – 48.0W
		_
MODULAR (2x6)	Rad. Power	Power
	420.0 – 840.0mW	33.0 – 48.0W

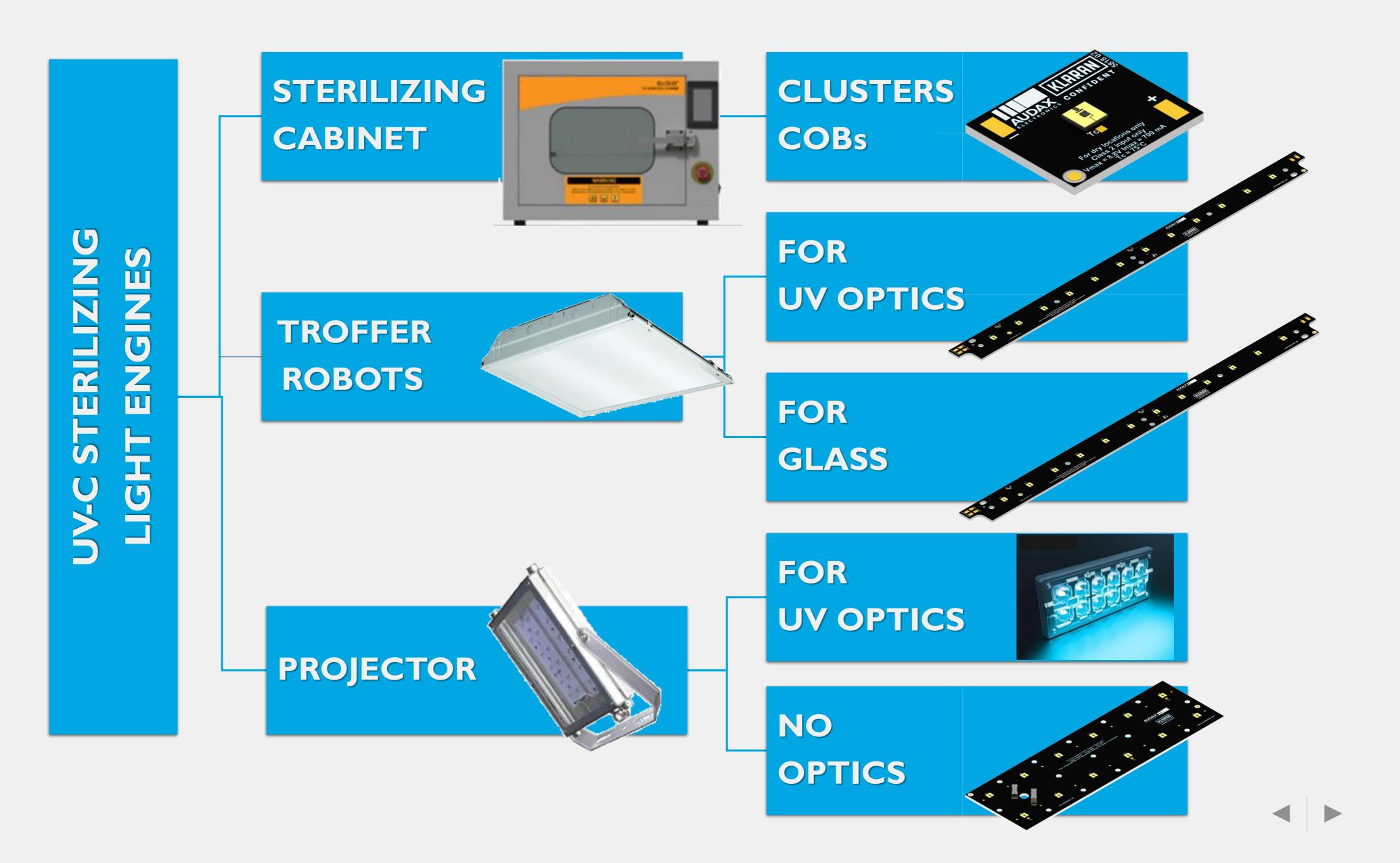






Example COB 38x38mm 1,120mW







COB 19x16mm

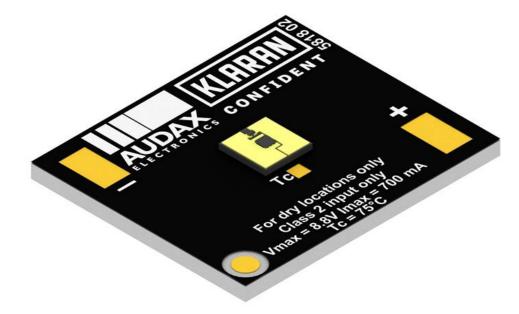




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COB 19x16mm

LIGHT ENGINE COB UVC 19mm x 16mm 70mW



PART NUMBER UV TYPE RAD. PO

UVC

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*Values calculated under Ts=40°C Schem: 1p1s

80338000100





OWER (mW)	WAVELENGTH (nm)	POWER (W)	Vf (V)	EFF. (%)	If Nom (mA)	#LEDs
70	260-270	4,00	8	I,8%	500	I.

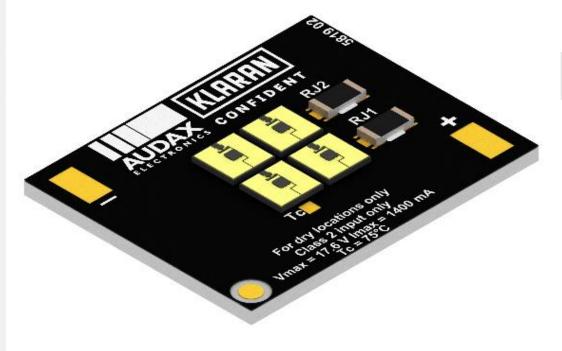






COB 24x l9mm

LIGHT ENGINE COB UVC 24mm x 19mm 280mW



PART NUMBER

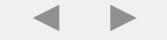
80338100100 UVC

*Values calculated under Ts=40°C Schem: 2p2s





UV TYPE RAD	. POWER (mW)	WAVELENGTH (nm)	POWER (W)	Vf (V)	EFF. (%)	If Nom (mA)	#LEDs
UVC	260-270	260-270	16,00	16	1,8%	1000	4





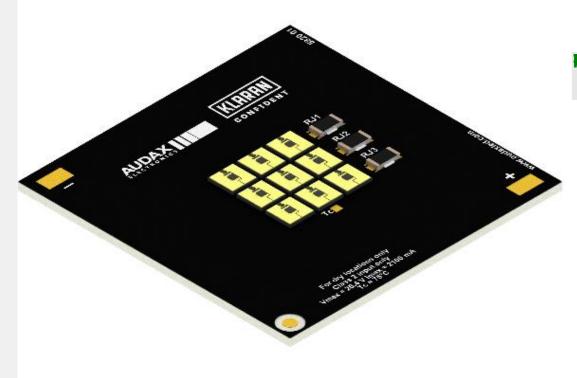




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COB 38x38mm

LIGHT ENGINE COB UVC 38mm x 38mm 630mW



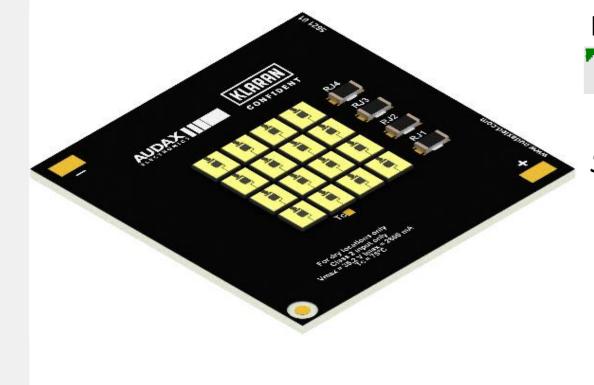
PART NUMBER UV TYPE RAD. PC 80338200100 UVC

*Values calculated under Ts=40°C Schem: 3p3s

LIGHT ENGINE COB UVC 38mm x 38mm 1,120mW

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PART NUMBER 80338300100

UV TYPE RAD. PC

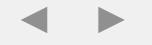
UVC

*Values calculated under Ts=40°C Schem: 4p4s



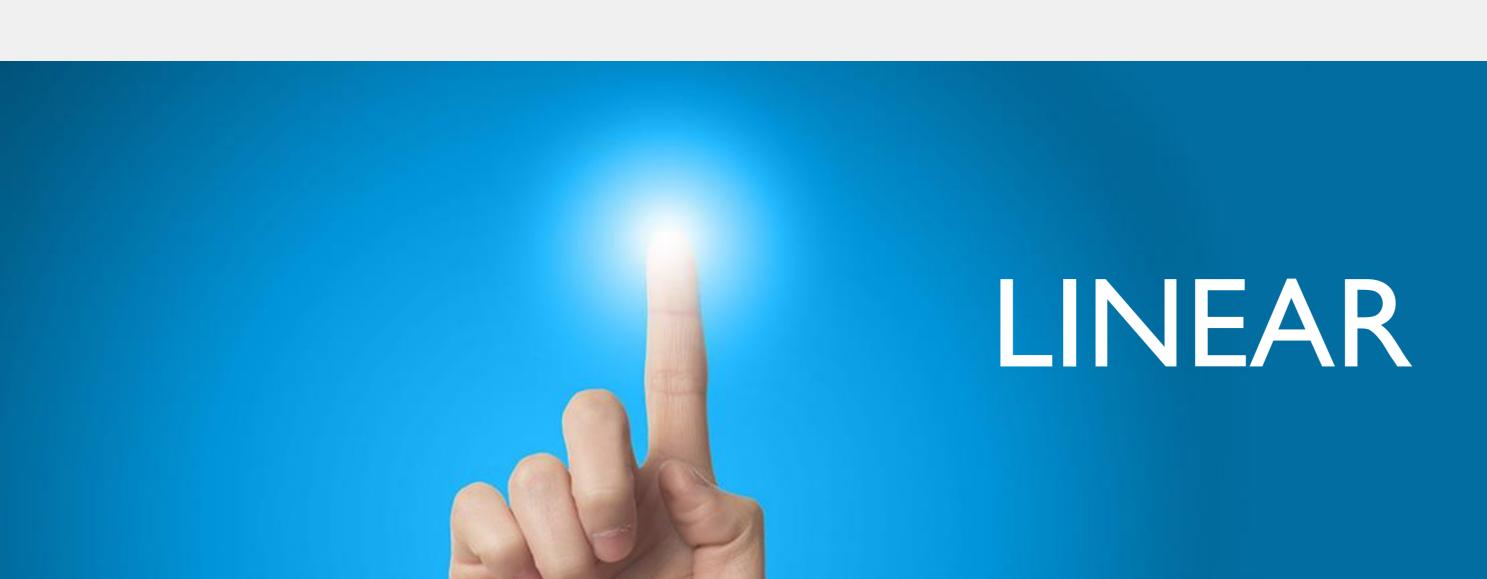


OWER (mW)	WAVELENGTH (nm)	POWER (W)	Vf (V)	EFF. (%)	lf Nom (mA)	#LED
630	260-270	36,00	24	I,8%	1500	9
	WAVELENGTH (nm)		Vf (V)	FFF (%)	If Nom (mA)	
1120	260-270	64,00	32	I,8%	2000	16





LINEAR





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LINEAR

LIGHT ENGINE VIOLET UVC 281mm x 19.2mm 420mW + Alert Light

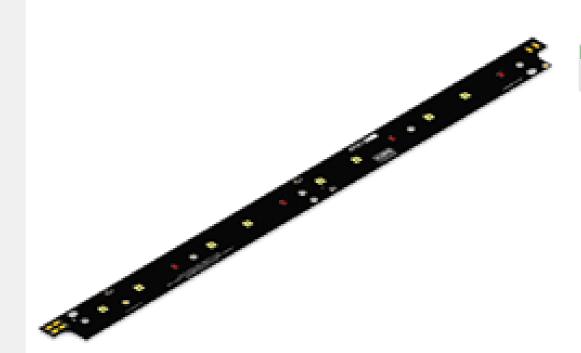


PART NUMBER UV TYPE RAD. PC

80338400100 UVC

*Values calculated under Ts=40°C Schem: 2p6s

LIGHT ENGINE VIOLET UVC 281mm x 19.2mm 560mW + Alert Light



PART NUMBER UV TYPE RAD. PC

80338500100

UVC

*Values calculated under Ts=40°C Schem: 2p6s





OWE	R (mW)	WAVELENGTH (nm)	POWER (W)	Vf (V)	EFF. (%)	lf Nom (mA)	#LEDs
420		260-270	33,00	33	I,3%	1000	12
	•••••	•••••			•••••		•••••
OWE	R (mW)	WAVELENGTH (nm)	POWER (W)	Vf (V)	EFF. (%)	If Nom (mA)	#LEDs
560		260-270	38,00	38	I,5%	1000	12



LINEAR

LIGHT ENGINE VIOLET UVC 281mm x 19.2mm 840mW





80338600100 UVC *Values calculated under Ts=40°C

Schem: 2p6s





OWER (mW)	WAVELENGTH (nm)	POWER (W)	Vf (V)	EFF. (%)	lf Nom (mA)	#LEDs
840	260-270	48,00	48	I,8%	1000	12







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MODULAR (2x6)

LIGHT ENGINE 2x6 UVC 420mW + Alert Light



PART NUMBER UV TYPE RAD. PC

UVC

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*Values calculated under Ts=40°C Schem: 2p6s

80338700100

LIGHT ENGINE 2x6 UVC 840mW ·····



UV TYPE RAD. PC PART NUMBER 80338800100 UVC

*Values calculated under Ts=40°C Schem: 2p6s





OWE	R (mW)	WAVELENGTH (nm)	POWER (W)	Vf (V)	EFF. (%)	lf Nom (mA)	#LED
420)	260-270	33,00	33	I,3%	1000	12
OWE	R (mW)	WAVELENGTH (nm)	POWER (W)	Vf (V)	EFF. (%)	lf Nom (mA)	#LED
840)	260-270	48,00	48	I,8%	1000	12



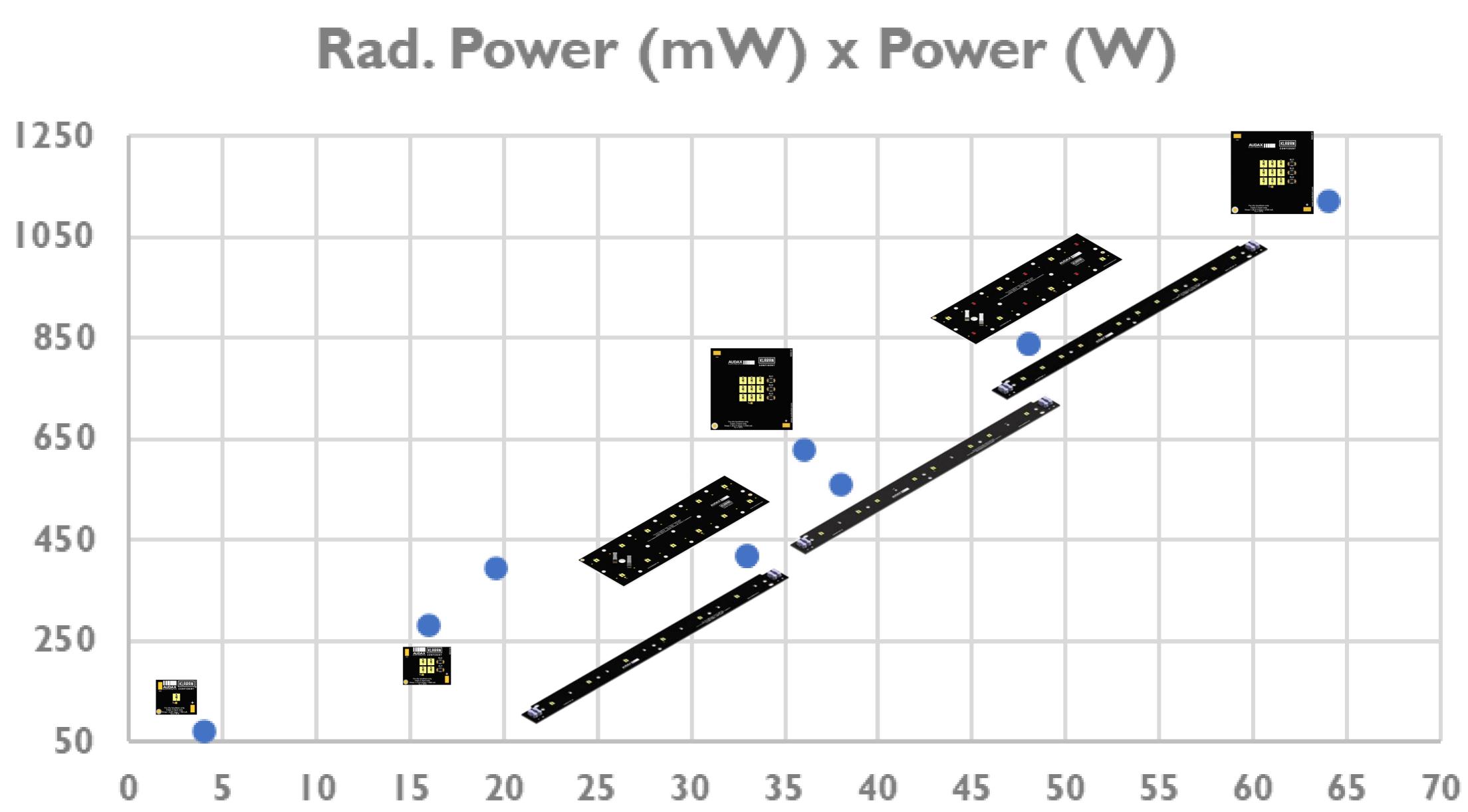






EFFICACY SUMMARY





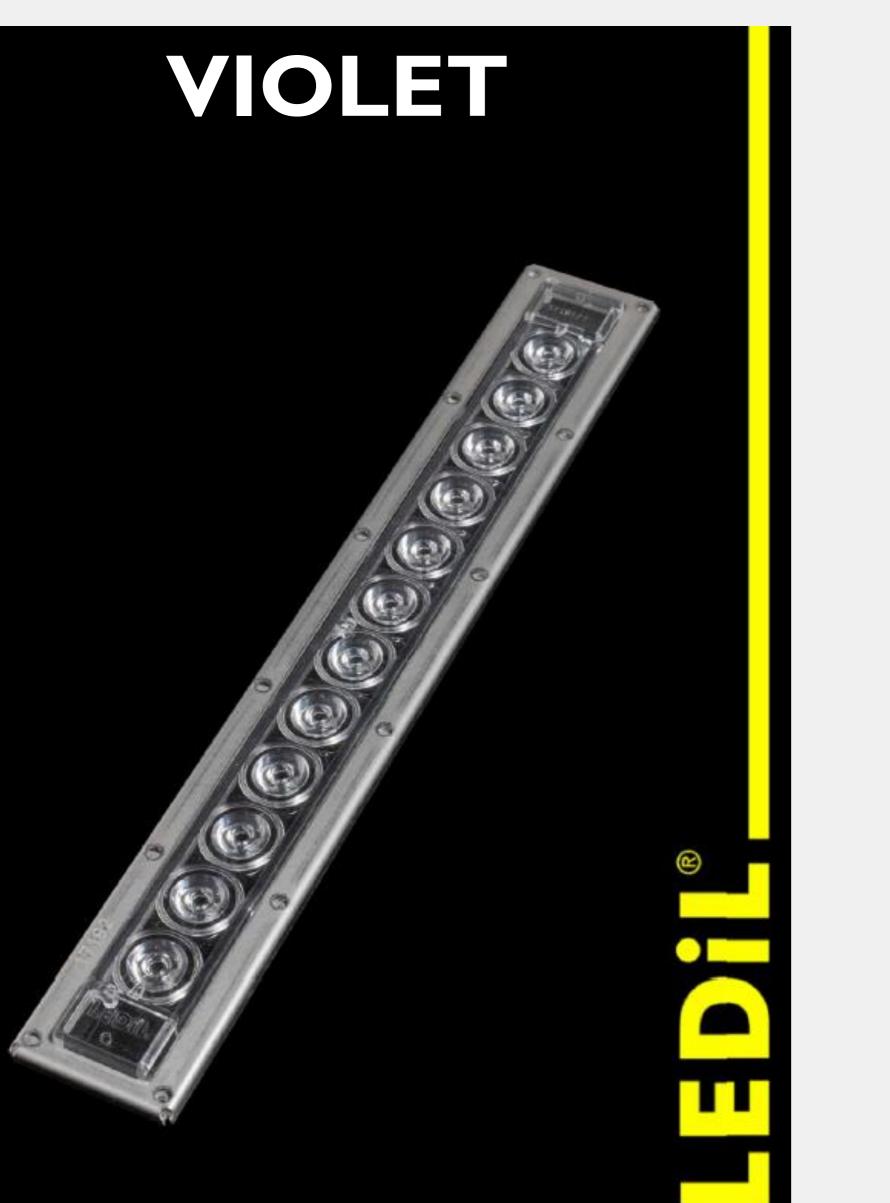






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OPTICS COMPATIBILITY



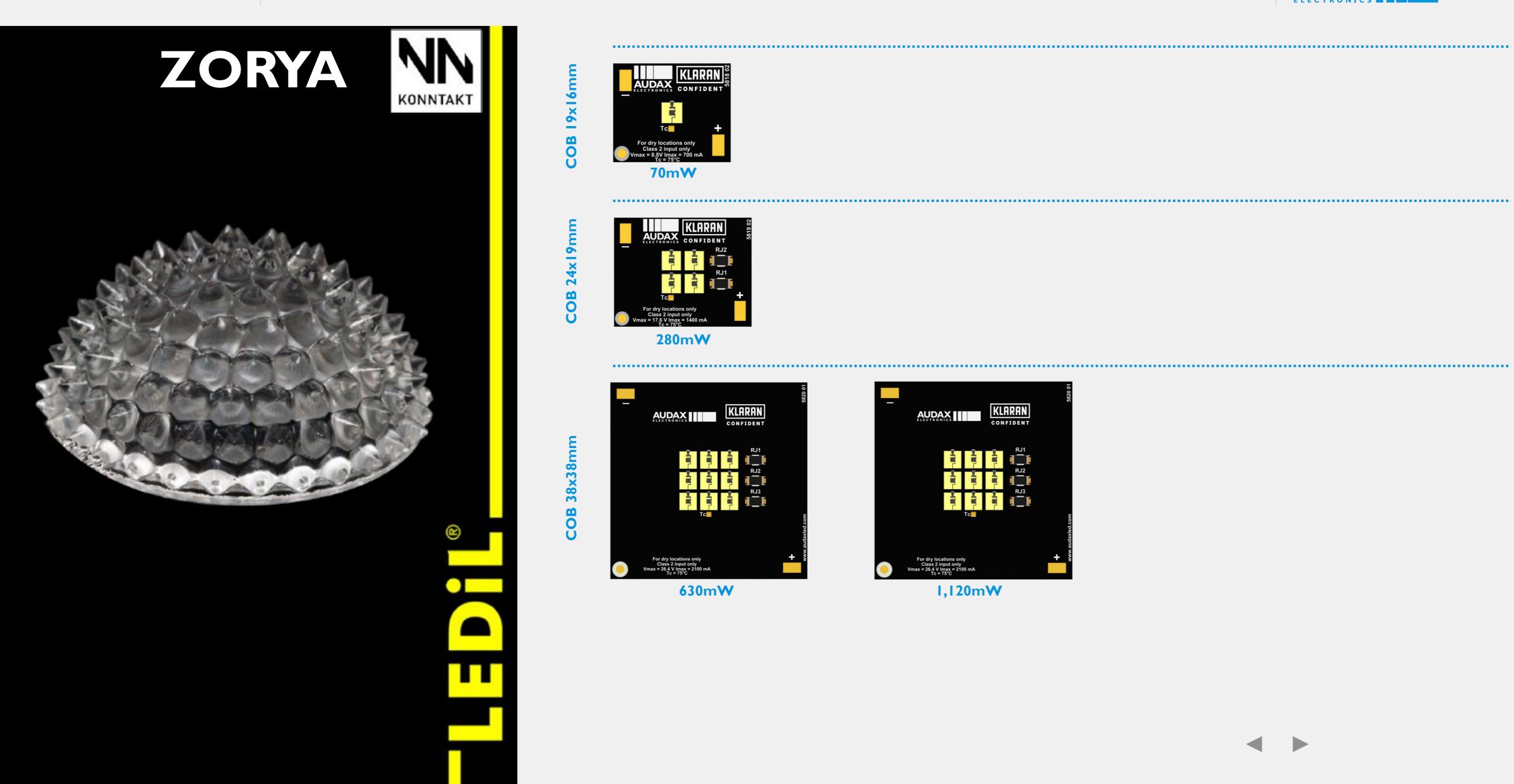
LIGHT 281mn 60m J

4

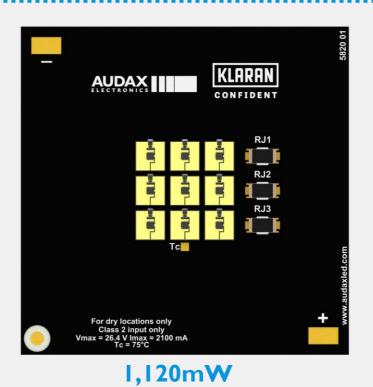
420m 0 LIGHT ENGINE VIG 281mm × 19.2mm 4 Alert Light





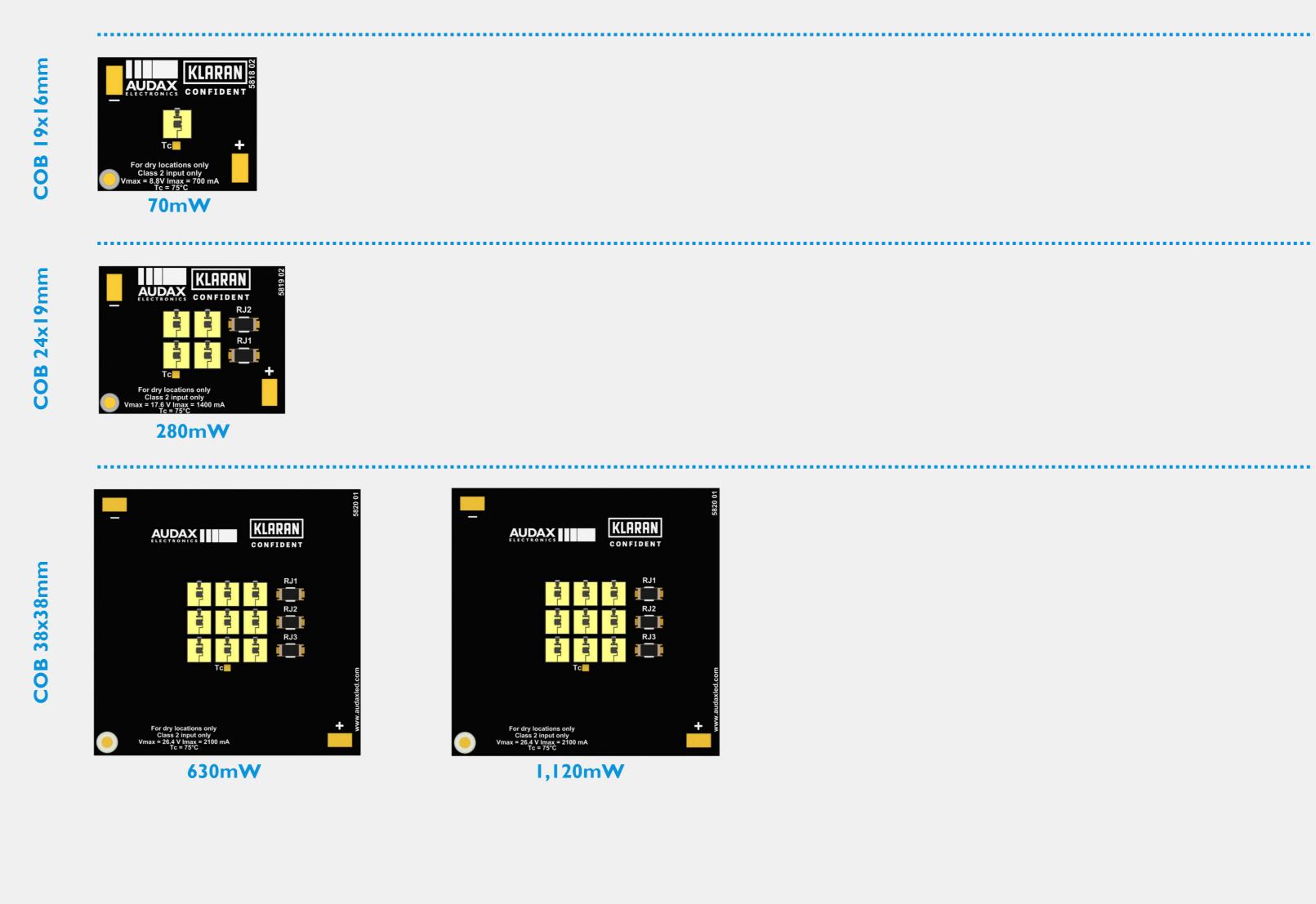




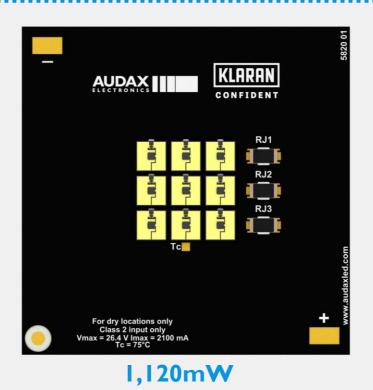
















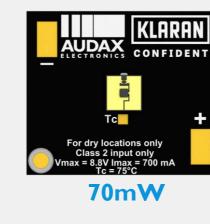


COB 19x16mm



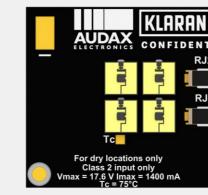






COB 19x16mm

COB 24x19mm



280mW





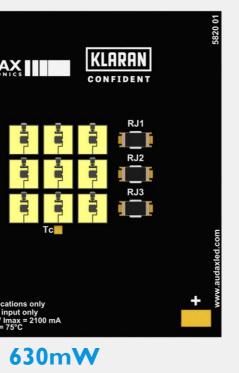
















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HOLDERS COMPATIBILITY



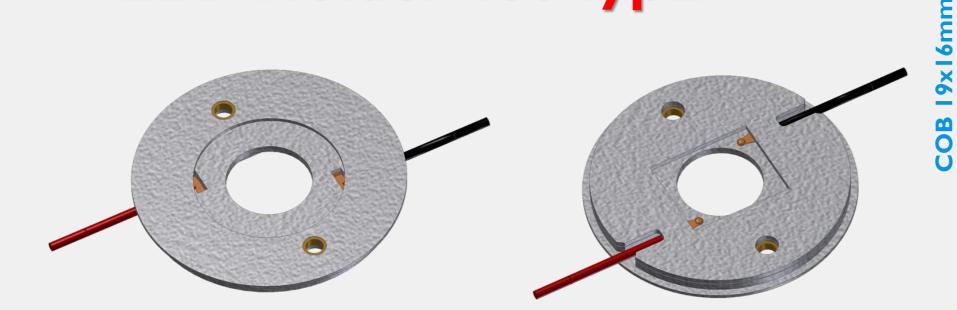


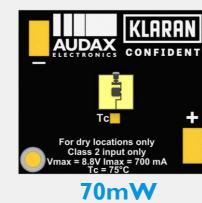
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HOLDERS COMPATIBILITY

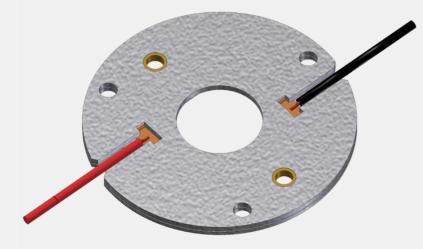


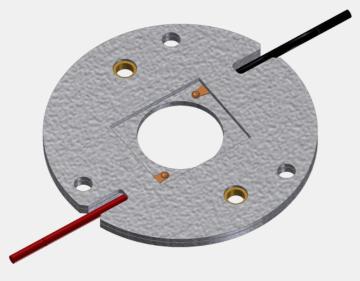
LED Holder 480 TypL7

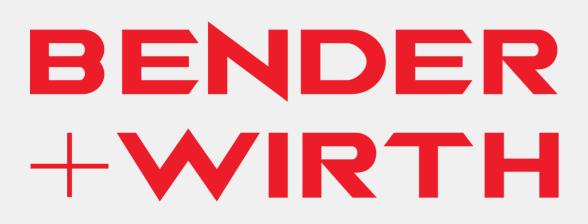




LED Holder 480 TypZ I



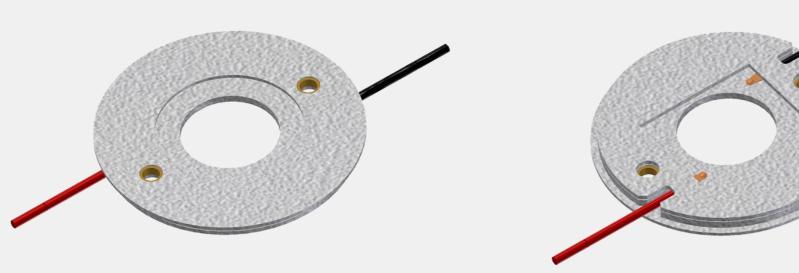








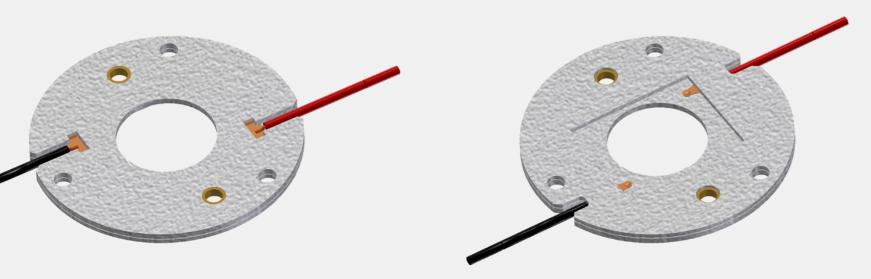
LED Holder 463 TypL7

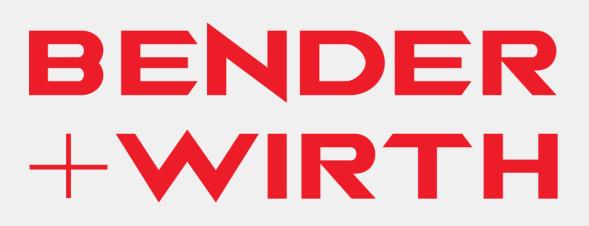




COB 24x19m

LED Holder 463 TypZ I





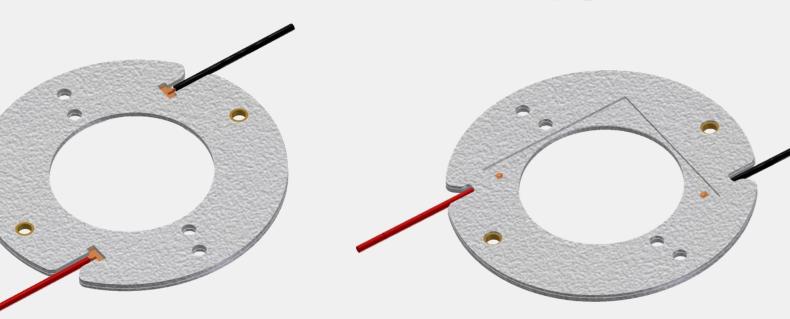




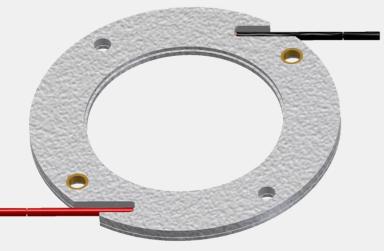
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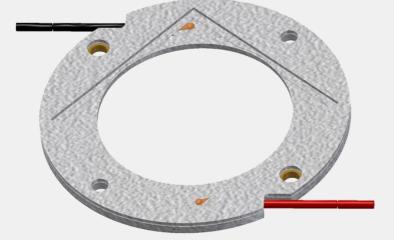
HOLDERS COMPATIBILITY

LED Holder 458 TypMIHV













COB 38x38m

630mW

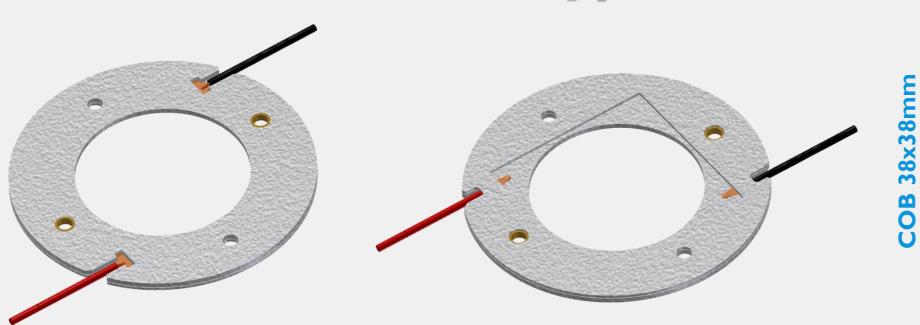








LED Holder 458 Typ I





630mW

BENDER +WIRTH













ECOSYSTEM

			Bender+Wirth		
P/N Audax Electronics	Descritpion	n Optics		Holder	Fixing Method
		no optics	N/A	480 Typ Z1	35mm 2x
		ZORYA	BW holder 4xx TypL7	480 Typ L7	35mm 2x
00220000100		STELLA-FRESNEL	75mm 4 screws	480 Typ Z1	35mm 2x
30338000100	LIGHT ENGINE COB UVC 19mm x 16mm 70mW	ALISE-50	by fixture housing	480 Typ Z1	35mm 2x
		ALISE-70	by fixture housing	480 Typ Z1	35mm 2x
		ALISE-110	by fixture housing	480 Typ Z1	35mm 2x
		no optics	N/A	463 Typ Z1	35mm 2x
0000000		ZORYA	BW holder 4xx TypL7	463 Typ L7	35mm 2x
30338100100	LIGHT ENGINE COB UVC 24mm x 19mm 280mW	STELLA-FRESNEL	75mm 4 screws	463 Typ Z1	35mm 2x
		ALISE-110	by fixture housing	463 Typ Z1	35mm 2x
	LIGHT ENGINE COB UVC 38mm x 38mm 630mW	no optics	N/A	458 Typ 1	50mm 4x
		no optics	N/A	458 Typ M1HV	42,5x40mm 4x
30338200100		ZORYA	BW holder 4xx TypL7	N/A	N/A
		STELLA-FRESNEL	75mm 4 screws	458 Typ L4-1	51mm 4x
		ALISE-110	in fixture housing	458 Typ 1	50mm 4x
	LIGHT ENGINE COB UVC 38mm x 38mm 1120mW	no optics	N/A	458 Typ 1	50mm 4x
		no optics	N/A	458 Typ M1HV	42,5x40mm 4x
30338300100		ZORYA	BW holder 4xx TypL7	N/A	N/A
		STELLA-FRESNEL	75mm 4 screws	458 Typ L4-1	51mm 4x
		ALISE-110	by fixture housing	458 Typ 1	50mm 4x
		FN17294_VIOLET-12X1-S	M3x10 12 screws	N/A	N/A
30338400100	LIGHT ENGINE VIOLET UVC 281mm x 19.2mm 420mW + Blue Alert Light	FN17810 VIOLET-12X1-RS	M3x10 12 screws	N/A	N/A
		FN17818 VIOLET-12X1-W	M3x1012 screws	N/A	N/A
		FN17294 VIOLET-12X1-S	M3x10 12 screws	N/A	N/A
30338500100	LIGHT ENGINE VIOLET UVC 281mm x 19.2mm	FN17810 VIOLET-12X1-RS	M3x10 12 screws	N/A	N/A
	560mW + Blue Alert Light	FN17818_VIOLET-12X1-W	M3x10 12 screws	N/A	N/A
		FN17294 VIOLET-12X1-S	M3x10 12 screws	N/A	N/A
30338600100	LIGHT ENGINE VIOLET UVC 281mm x 19.2mm	FN17810 VIOLET-12X1-RS	M3x10 12 screws	N/A	N/A
	840mW	FN17818 VIOLET-12X1-W	M3x1012 screws	N/A	N/A
		N/A	N/A	N/A	N/A
80338700100	LIGHT ENGINE 2x6 UVC 420mW + Blue Alert Light	N/A	N/A	N/A	N/A
	LIGHT LIGHT ZAU OVC 420HIV + DIGE AIER LIGHT	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A
80338800100	LIGHT ENGINE 2x6 UVC 840mW	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A



THANKYOU

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