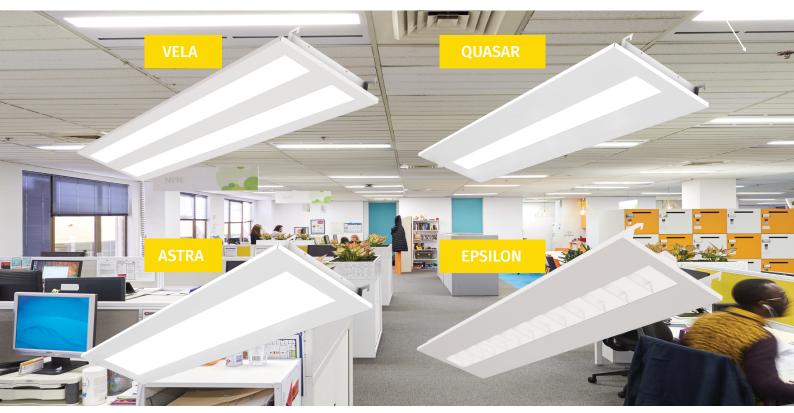
Troffers with Emergency Lighting option



Elegantly designed and brilliantly efficient, Fotenic's troffers are the pride and joy of our engineering team; casting beautiful even lighting on desk-tops where it is needed and minimising glare with lenticular diffusers that meets Australian building standards. The Vela, with a UGR < 16 complies with WELL V2.

The troffers have a CRI with Ra > 95 and a red content R9 > 78, together with their circadian tunable options are quantum leaps ahead of the nearest competitor. Furthermore, a Fotenic 20W LED troffer can typically replace a twin T5/T8 (56W/72W) fitting. A significant energy saving.

Based on IES LM-80-08, the lamp section has an expected lifespan greater than 180,000 hrs at 45°C (36 yrs@5,000 hrs/yr) at L70, which implies less than 1% lumen depreciation per annum. By

renewing drivers every 5 years the life span can be extended in quantum of 5 years for 20 years.

The lamp reflectors are enclosed, and the flat emission surface is easy to clean. This combination will help maintain the Light Loss Factor (LLF) of the luminaire through time.

Significant cost savings can be made with the plug-n-play luminaires that utilises wireless LoRa. A single Gateway can monitor/control up to 64,000 devices and zoning is a simple point-nclick.

Emergency lighting is an option and together with LoRa and its application software, i3t, is a formidable smart building system that incorporates emergency testing and reports.







Customisation: Nonstandard ceiling frames and air-vents to fit air conditioner booth are our specialty and we can deliver them as quickly as our standard troffers.

Emergency Option: Installations are greatly simplified by our commonsense approach in doubling-up the troffer LEDs as emergency light. It will reduce cost and waste.

Human Centric Lighting: Our troffers unique mechanics and selection of materials enhance their efficiency, exhibit very low glare, and have an excellent red content (R9 >78) that is suitable for use in hospitals. Tunable lighting is an option.

Long Life: At 1% per annum LED depreciation on continuous use, the lamp should last 20 years at L80. The lamp driver has a lifespan of more than 5 years on continuous use.

Warranty & Warranty Options: The standard warranty is 5 years for the luminaire's driver and 10 years for the LED lamp section. Customers can replace the drivers every 5 years to extend the luminaires life to 10 years or we can provide and option to extend the luminaire life by autoswitching 2 drivers.

Futuristic: Internet of Things (IoT) is the future for smart-building application. LoRa (short for Long Range) has become the IoT standard for control systems because it has a 5 km range in metropolitan built-up areas. Fotenic i3t building management is our application software on smart devices that communicates to LoRa through a gateway.



VFIA

- ◇ Ultra-low glare UGR < 16</p>
- \diamond Comply with WELL V2

FPSILON

Very low glare UGR < 19



QUASAR

- Very low glare UGR < 19
- ♦ Lower Costs



ASTRA

Customised

1 for 1 twin T8/T5 replacement with only 20W with LoRa Wireless & emergency light options

Standard Specification

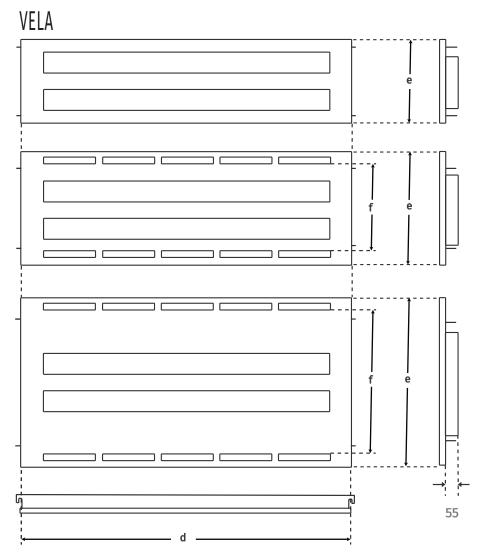
Standard Specification		20W*	Life expectancy (L70):		>180,000 hrs (Calc) >60000 hrs (Reported)	
Efficacy:		116 lm/W @ 20W	Warranty :		5 years	
Beam angles:			Warranty (option):		8 years (option)	
Vela:		67°(H), 79°(V)	Weight:		2.5Kg	
	Quasar:	92°(H), 100°(V)				
	Epsilon:	85°(H), 90°(V)	Opt	ions		
	Astra:	90°(H), 100°(V)		iting control system:	DALI (dimmable)	
CRI:		Ra > 95 , R9 > 78	3		LoRa i3t	
Colour temperature:		Cool white, 5000K	LoRa i3t Lighting control:			
cotour temperature.		Neutral white, 4000K	64,000 Lamp and device Nodes			
		Warm white, 3000K	Easy setup:			
		Tunable option			nt-n-click zoning	
UGR: Vela:		<16	with multi-level grouping			
Quasar:		<19	0-100% zone or group dimming			
·		<19	Ambient light correction			
Epsilon: Astra:		NA	Room correction factor			
SCDM:		3	Occupancy sensing			
LLD(Av):			Tunable White: 2700-5500K **			
Diffuser:		2.21% @ 12,000 hrs Polycarbonate		1 integration:	BacNet, KNX, Modbus,	
Chromaticity shift (Av):		0.0012 @ 12,000 hrs	OLN	Tintegration.	S-Mode, Desigo,	
Fitting Material:		Zinc coated steel			5 Mode, Desigo,	
Fitting colour:		USA white	Custom colour: Yes			
IP rating:		IP40	Custom Dimensions:		Yes	
Input Voltage:		180-264Vac	Cusi	tom Dimensions.	165	
Power factor:			*	Half size troffer input	t nower: 12W/	
Operating temperature:		>0.96@20W -20°C to 45°C	 * Half size troffer input power: 12W Other watages available 			
Approved standards:		SAA, C-Tick	** 5 year warranty			
Appiov	eu stanuarus.	SAA, C-TICK		5 year warranty		
Ordering Information						
VELA: TRVab-cdef-gh-i e: 1 (300mm), 2 (400mm), 3 (600mm)						
VELA: TRVab-cd		-			00mm), 3 (600mm)	
QUASAR: TRQab-cc		0			35mm), 0 Custom size	
EPSILON: TREab-cdef-gh-i			f:	Air-vent distance		
ASTRA: TRAab-cd		ef-gh-i			1 (320mm), 2 (520mm)	
<i></i>					3 (240mm), 0 Custom	
a: watts e.g. TRV 20 = 20W			g:		Lora i3t , Blank (no LoRa)	
b: DALI-2 driver, Standard driver, Y8 8 yrs drivers,			h:	P IR,		
c: Cool white, Neutral white,				Microwave,		
Warm white, Tunable				Combined PIR & Ambient sensor		
d: 1 (600mm), 2 (1200				Blank (no sensor)		
		0mm), 9 (1575mm)	i:	Emergency		
	0 Custom size					





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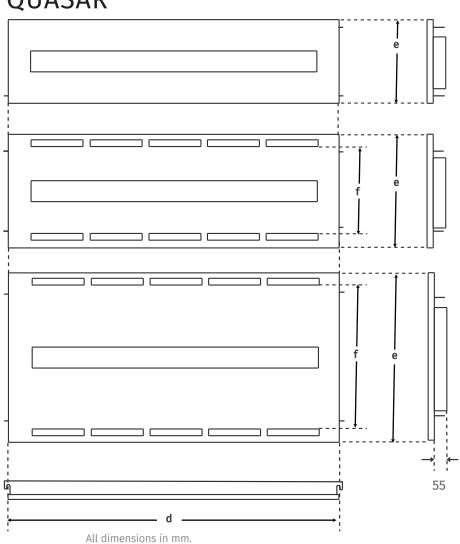




All dimensions in mm. Custom dimensions available on request

5

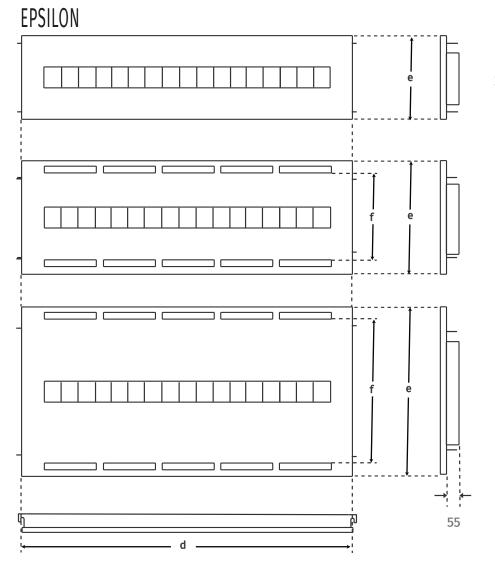




QUASAR

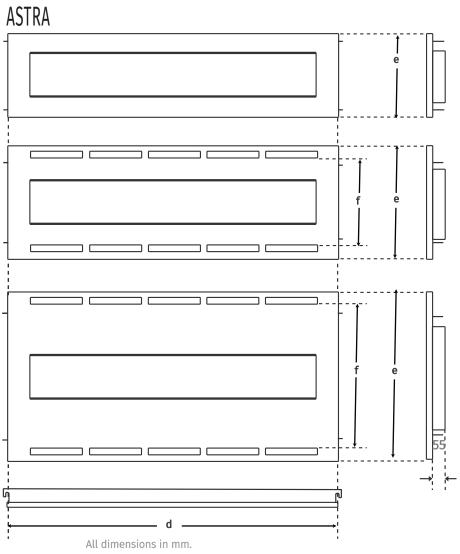
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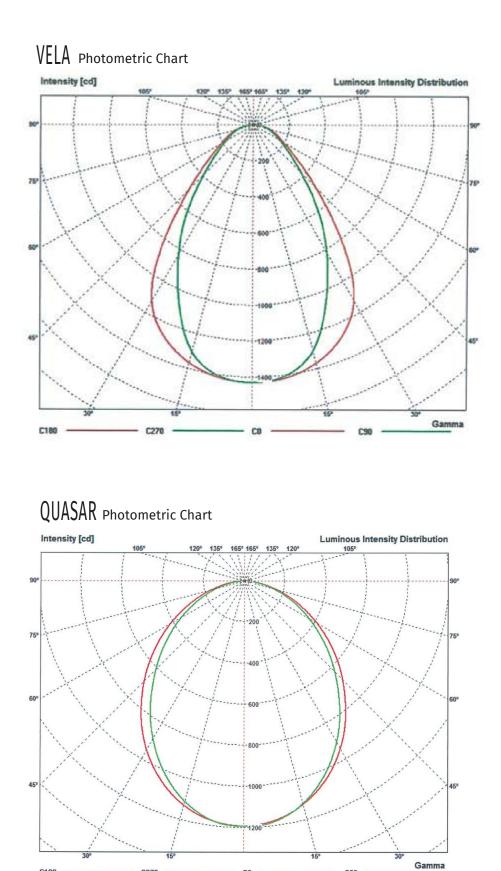


All dimensions in mm. Custom dimensions available on request





Custom dimensions available on request

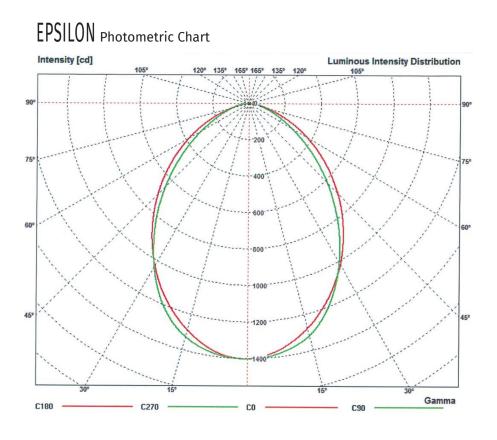




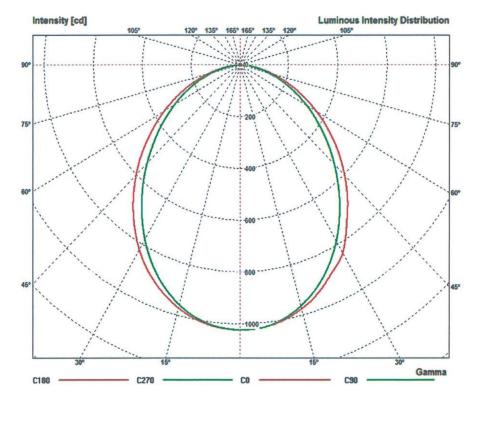
C180

C270

C90



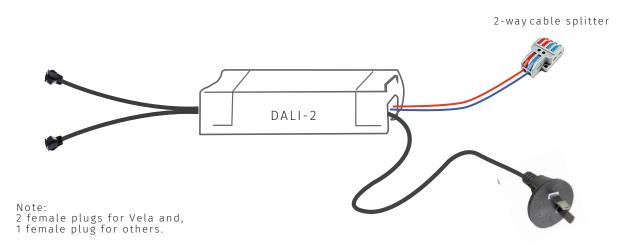
ASTRA Photometric Chart





<u>Cabling</u>

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1.!